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ABSTRACT

The data presented in this report show trends in doctorate awards by science and engineering field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED) conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. Approximately 94 percent of the annual cohort of doctorate recipients in 1995 responded to the questionnaire. (JRH)

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# **Selected Data on Science and Engineering Doctorate Awards**

## **1995**

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Division of Science Resources Studies  
Directorate for Social, Behavioral and Economic Sciences

**National Science Foundation**



**NSF 96-303**

# **Selected Data on Science and Engineering Doctorate Awards**

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## **1995**

**Selected Data Tables**

**Susan T. Hill, Project Officer**

Division of Science Resources Studies  
Directorate for Social, Behavioral and Economic Sciences

**National Science Foundation**



**NSF 96-303**

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## Contributors

Tabulations were performed by Barbara DePaul and Teresa Grimes of the Quantum Research Corporation under contract to the National Research Council. The Project Officer for this report was Susan T. Hill.

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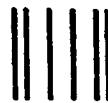
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## GENERAL NOTES

The data presented in this report show trends in doctorate awards by science and engineering (S&E) field and recipient characteristics, institutions awarding doctorates, and postgraduation plans of recipients. The source of the data is the Survey of Earned Doctorates (SED).

The SED is conducted annually for the National Science Foundation (NSF) and four other Federal agencies by the National Research Council. Information from this survey becomes part of the Doctorate Records File, which is a census of recipients of research doctorates awarded since 1920 by regionally accredited universities and colleges. Doctoral degrees such as the Ph.D. or D. Sc. are included in these surveys, but first-professional degrees such as the J.D. or M.D. are not.

Data for the SED are collected directly from the individual doctorate recipients. The questionnaire is distributed to them through the cooperation of the graduate deans to persons as they are completing their doctorate. The data for a given year include all doctorates awarded in the 12-month period ending on June 30 of that year.

These tables present detailed data on (S&E) doctorate recipients, with some totals provided for broad non-S&E fields. Detailed data on non-S&E fields are published by the National Research Council and by other Federal sponsors of the Survey of Earned Doctorates. The groupings of field specialties into

broad fields may differ among the sponsoring agencies according to their missions; for example, health fields are not included in the NSF science fields.

Approximately 94 percent of the annual cohort of doctorate recipients in 1995 responded to the questionnaire. Over the decade, though, the response rate ranged from 94 percent in 1986 to 92 percent in 1989 and 94 percent in 1995. Note that most of the numbers presented are actual self-reports, as there are no adjustments for nonresponse. For the nonrespondents, partial data from public sources are added to the file for nonrespondents; therefore complete counts are presented for conferred doctorates by field of study and sex of recipient. Although some tables present data subject to nonresponse, the estimates represent the conservative known estimate for any data item. Therefore, small changes in numbers should be interpreted with caution, as numerical trends are affected by fluctuations in response rates. Thus, declines and increases may appear greater than they actually are.

For information on the availability of additional data for S&E doctorate recipients, please contact—

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**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
S&E total	19,437	19,894	20,933	21,731	22,867	24,019	24,673	25,441	26,202	26,515
Engineering, total	3,376	3,712	4,187	4,543	4,894	5,215	5,438	5,698	5,822	6,007
Aeronautical/astronautical engineering	118	142	150	178	192	207	234	228	230	251
Chemical engineering	531	584	685	712	658	691	725	737	725	708
Chemical	476	527	624	625	561	621	607	624	630	602
Petroleum	18	23	33	29	49	28	54	52	42	48
Polymer/plastics <sup>1</sup>	37	34	28	58	48	42	64	61	53	58
Civil engineering	429	477	531	538	553	575	594	624	684	656
Civil	387	441	488	498	505	509	540	563	602	572
Environmental health	42	36	43	40	48	66	54	61	82	84
Electrical engineering	806	779	1,010	1,137	1,276	1,405	1,483	1,543	1,673	1,731
Communications	23	26	24	25	35	21	30	22	33	29
Computer	77	62	100	117	131	178	175	167	202	189
Electrical/electronics	706	691	886	995	1,110	1,206	1,278	1,354	1,438	1,513
Industrial/manufacturing engineering <sup>2</sup>	101	120	127	162	151	165	196	236	228	283
Materials/metallurgical engineering	305	392	374	380	440	489	485	535	539	588
Ceramic sciences <sup>3</sup>	25	42	30	35	43	58	42	42	39	39
Materials science	187	238	252	257	307	361	365	416	433	476
Metallurgical	93	112	92	88	90	70	78	77	67	73
Mechanical engineering	536	657	715	760	884	875	987	1,030	1,015	1,024
Mechanical	442	544	610	650	773	762	855	902	883	916
Engineering mechanics	94	113	105	110	111	113	132	128	132	108
Other engineering	550	561	595	676	740	808	734	765	728	766
Agricultural	52	74	70	102	101	84	84	86	89	73
Bioengineering-biomedical	67	75	114	115	129	149	147	171	173	189
Engineering physics	13	13	9	16	16	23	25	21	17	17
Engineering science	30	26	32	27	37	42	51	55	46	56
Mining mineral	22	27	17	3	39	38	26	24	23	19
Naval architecture-marine <sup>4</sup>	9	7	9	8	5	N/A	N/A	N/A	N/A	N/A
Nuclear	98	84	104	86	114	107	120	108	85	105
Ocean	14	24	21	20	17	21	21	24	29	21
Operations research	54	51	44	68	46	76	56	56	47	48
Systems	33	47	44	30	51	48	37	57	51	47
Engineering general	55	54	49	61	75	78	64	47	39	60
Engineering, other	103	79	82	109	107	137	103	116	129	131
Sciences total	16,061	16,182	16,746	17,188	17,973	18,804	19,235	19,743	20,380	20,508
Physical sciences, total	3,120	3,238	3,350	3,261	3,524	3,625	3,780	3,699	3,977	3,840
Astronomy	109	100	130	113	128	125	134	145	144	173
Astronomy	52	46	66	49	52	50	55	76	66	89
Astrophysics	57	54	64	64	76	75	79	69	78	84
Chemistry	1,903	1,975	2,015	1,970	2,100	2,193	2,213	2,137	2,257	2,161
Analytical	257	314	301	289	293	304	304	286	334	317
Inorganic	260	240	250	256	242	260	268	237	262	257
Medicinal/pharmaceutical <sup>5</sup>	58	65	73	64	48	82	68	99	102	96
Nuclear	18	13	7	6	13	14	7	8	10	5
Organic	511	511	531	511	452	538	512	518	544	483
Physical	293	302	318	310	325	364	398	336	334	338
Polymer	72	96	81	78	81	111	83	107	117	116
Theoretical	41	46	50	46	55	45	59	53	52	40
Chemistry, general	289	297	310	312	524	400	449	431	447	458
Chemistry, other	104	91	94	98	67	75	65	62	55	51

See explanatory information, if any, and SOURCE at end of table

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**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Physics ..	1,078	1,137	1,172	1,161	1,265	1,286	1,403	1,399	1,548	1,479
Acoustics ..	15	17	16	15	21	13	18	27	20	18
Chemical & atomic molecular <sup>6</sup> ..	70	79	77	74	87	76	85	95	140	110
Electron <sup>4</sup> ..	2	6	2	4	2	1	N/A	N/A	N/A	N/A
Elementary particle ..	147	159	174	135	163	182	153	170	176	183
Fluids ..	6	21	17	14	17	14	17	19	12	18
Nuclear ..	89	74	88	81	73	66	86	82	90	91
Optics ..	58	50	65	78	76	85	94	96	104	98
Plasma & high-temperature ..	61	72	65	61	42	58	65	62	79	46
Polymer ..	11	15	20	7	11	17	17	29	29	23
Solid state & low-temperature <sup>c</sup> ..	280	287	252	296	306	372	408	336	388	371
Physics, general ..	222	238	271	269	323	247	297	340	343	355
Physics, Other ..	117	119	125	127	144	155	163	143	167	166
Other physical sciences ..	30	26	33	17	31	21	30	18	28	27
Earth, atmospheric and ocean sciences total ..	559	602	695	723	738	815	794	771	824	778
Atmospheric sciences ..	78	87	103	87	63	108	120	99	129	130
Atmospheric dynamics ..	16	17	25	16	20	21	23	23	27	16
Atmospheric physics chemistry ..	21	24	19	15	18	20	36	13	27	27
Meteoroology ..	27	17	35	27	20	31	28	34	32	25
Atmospheric science meteorology, general ..	7	16	14	14	23	26	27	22	37	44
Atmospheric science meteorology other ..	7	13	10	15	2	10	6	7	6	18
Geosciences ..	346	375	425	455	477	560	503	479	509	454
Applied geology <sup>4</sup> ..	4	5	7	6	6	1	N/A	N/A	N/A	N/A
Geology ..	118	114	144	165	166	192	166	197	194	186
Geochemistry ..	37	31	46	39	56	64	62	50	59	42
Geomorphology glacial geology ..	11	18	9	10	14	18	12	16	13	11
Geophysics seismology ..	89	75	83	87	91	117	108	101	106	93
Hydrology water resources ..	16	18	24	24	13	16	29	25	30	24
Mineralogy petrology ..	17	24	19	36	26	36	29	9	21	19
Paleontology ..	16	21	24	17	21	24	25	21	17	20
Stratigraphy sedimentation ..	14	22	30	24	25	29	23	28	27	16
Geological & related sciences, general ..	12	18	8	19	31	30	18	15	18	21
Geological & related sciences, other ..	12	29	31	28	28	33	31	17	24	22
Oceanography ..	100	111	109	113	128	112	114	125	125	114
Marine sciences ..	22	38	28	26	39	27	32	27	34	31
Oceanography ..	78	73	81	87	89	85	82	98	91	83
Other environmental sciences ..	35	29	58	68	50	35	57	68	61	80
Mathematical computer sciences total ..	1,128	1,190	1,264	1,471	1,597	1,839	1,927	2,026	2,021	2,188
Mathematics total ..	729	740	749	859	892	1,039	1,058	1,146	1,118	1,190
Algebra ..	46	57	54	50	39	72	69	84	78	82
Analysis functional analysis ..	81	86	76	103	90	132	105	105	107	99
Applied mathematics ..	135	131	142	158	185	193	213	188	206	211
Computing theory ..	10	14	12	12	12	19	12	18	16	14
Geometry ..	38	30	44	47	42	66	45	44	35	45
Logic ..	23	18	20	12	19	23	28	19	29	35
Mathematical statistics <sup>11</sup> ..	141	143	152	167	157	206	217	228	205	205
Number theory ..	20	15	26	23	26	30	25	42	37	35
Operations research ..	29	22	29	22	29	16	22	37	26	36
Topology ..	34	41	27	37	50	57	58	54	38	51
Mathematics general ..	125	137	134	177	191	180	209	276	269	305
Mathematics other ..	47	46	33	51	52	45	55	51	72	72
Computer sciences, total ..	399	450	515	612	705	800	869	880	903	998
Computer science ..	355	384	442	519	612	720	791	825	833	914
Information science systems ..	44	66	73	93	93	80	78	55	70	84

See explanatory information, if any, and SOURCE at end of table.

**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Biological/agricultural sciences.										
total .....	4,804	4,815	5,127	5,201	5,501	5,719	5,861	6,059	6,278	6,406
Biological sciences, total .....	3,807	3,839	4,112	4,115	4,327	4,646	4,798	5,091	5,200	5,370
Bacteriology .....	12	13	7	11	15	11	13	14	18	13
Biochemistry .....	576	573	613	669	678	765	715	846	804	825
Biomedical sciences <sup>10</sup> .....	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	93
Biophysics .....	72	86	97	87	103	100	125	103	123	154
Biotechnology research <sup>11</sup> .....	N/A	N/A	N/A	N/A	N/A	N/A	N/A	8	14	4
Plant genetics .....	20	26	26	18	31	23	33	41	30	35
Plant pathology .....	28	33	30	22	37	50	32	41	40	32
Plant physiology .....	52	62	74	47	51	65	68	48	70	55
Botany, other .....	121	106	112	117	104	105	107	105	117	102
Anatomy .....	86	92	88	80	70	77	75	76	66	65
Biometrics/biostatistics .....	30	37	47	46	47	59	63	74	72	67
Cell biology .....	130	127	118	133	145	149	188	231	237	236
Developmental biology embryology <sup>12</sup> .....	9	6	7	10	22	37	48	57	62	64
Ecology .....	183	158	155	161	166	189	180	177	201	203
Endocrinology .....	17	19	21	21	24	33	27	16	26	20
Entomology .....	170	123	133	139	147	138	139	114	123	121
Biological immunology <sup>13</sup> .....	146	136	179	152	153	177	181	169	161	191
Microbiology .....	326	301	333	340	335	372	377	433	423	426
Molecular biology .....	298	303	364	413	413	481	527	582	598	618
Neuroscience .....	120	153	163	181	192	238	238	276	284	305
Nutritional sciences .....	122	141	127	128	118	106	132	134	147	136
Parasitology .....	25	16	20	20	13	20	17	17	22	14
Toxicology .....	104	115	108	111	91	86	105	100	120	123
Human animal genetics .....	91	113	118	112	153	160	142	172	203	202
Human animal pathology .....	91	127	112	105	101	122	114	130	128	109
Human animal pharmacology .....	245	234	252	241	243	262	278	273	256	274
Human animal physiology .....	240	248	225	272	278	272	266	271	289	262
Zoology, other .....	155	139	167	132	122	125	134	114	117	145
Biological sciences, general .....	213	229	256	231	333	278	315	305	288	350
Biological sciences, other .....	125	123	160	116	142	146	159	164	161	126
Agricultural sciences, total .....	997	976	1,015	1,086	1,174	1,073	1,063	968	1,078	1,036
Agronomy & crop science <sup>14</sup> .....	159	143	141	140	143	117	123	104	143	114
Animal breeding/genetics .....	25	23	27	23	22	18	23	18	17	19
Animal nutrition .....	65	82	54	67	54	57	41	52	58	50
Dairy science <sup>14</sup> .....	N/A	N/A	12	16	20	19	14	11	11	14
Poultry science <sup>15</sup> .....	N/A	N/A	10	11	17	13	22	16	21	11
Animal sciences, other .....	91	76	86	95	90	92	97	74	86	85
Fisheries science & management <sup>16</sup> .....	31	32	42	34	42	39	26	38	48	49
Wildlife range management <sup>17</sup> .....	20	23	39	52	58	59	55	54	52	50
Food science <sup>18</sup> .....	121	131	16	1	N/A	N/A	N/A	N/A	N/A	N/A
Food engineering <sup>18</sup> .....	N/A	N/A	6	11	10	12	14	9	16	7
Food sciences, other <sup>15</sup> .....	N/A	N/A	119	147	141	137	151	141	153	135
Forestry science <sup>19</sup> .....	88	100	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Forest biology <sup>19</sup> .....	N/A	N/A	21	22	27	17	29	18	20	24
Forest engineering <sup>19</sup> .....	N/A	N/A	3	1	2	2	2	3	N/A	4
Forest management <sup>19</sup> .....	N/A	N/A	18	21	14	12	16	17	17	20
Wood science & pulp paper technology <sup>19</sup> .....	N/A	N/A	7	16	16	16	21	20	26	25
Conservation/renewable natural resources <sup>19</sup> .....	N/A	N/A	7	12	16	19	9	13	21	24
Forestry & related sciences, other <sup>19</sup> .....	N/A	N/A	35	57	62	45	62	55	59	72
Horticulture science .....	60	71	61	75	101	78	65	62	65	67
Plant breeding genetics .....	78	70	83	64	87	69	82	68	81	72
Plant pathology .....	85	76	46	63	64	90	63	58	55	52
Plant protection pest management <sup>11</sup> .....	N/A	N/A	1	6	4	2	N/A	N/A	N/A	N/A
Plant sciences, other .....	22	20	23	15	23	17	29	28	24	30
Soil sciences <sup>11</sup> .....	103	74	18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Soil chemistry microbiology <sup>21</sup> .....	N/A	N/A	33	28	27	24	24	26	21	27
Soil sciences, other <sup>21</sup> .....	N/A	N/A	62	75	91	78	63	59	69	72
Agricultural sciences general .....	4	5	9	7	5	3	9	10	4	6
Agricultural sciences, other .....	45	50	21	27	38	28	23	14	11	7

See explanatory information if any and SOURCE at end of table

**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Psychology total	3,126	3,173	3,074	3,208	3,281	3,250	3,263	3,419	3,380	3,419
Clinical	1,173	1,214	1,095	1,259	1,337	1,305	1,309	1,373	1,285	1,292
Cognitive psychology & psycholinguistics <sup>22</sup>	70	80	83	79	76	94	101	104	129	104
Comparative	14	9	7	8	8	7	2	5	8	4
Counseling	449	486	482	501	466	497	507	488	497	470
Developmental & child <sup>23</sup>	134	200	176	148	159	155	170	202	180	153
Educational	106	89	103	105	98	110	91	91	69	74
Experimental	147	146	135	146	143	142	154	143	139	151
Family & marriage counseling <sup>10</sup>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	51
Industrial organizational	110	107	118	104	126	142	138	158	137	145
Physiological psychobiology <sup>24</sup>	73	69	85	62	46	45	55	85	93	93
Quantitative	23	13	12	11	15	7	10	16	17	13
Personality	16	25	18	28	20	13	17	22	19	16
Psychometrics	11	9	11	6	8	9	5	9	5	10
School	116	93	115	107	82	82	88	95	84	91
Social	141	133	140	128	145	147	139	125	153	155
Psychology general	309	343	368	364	371	324	295	306	280	307
Psychology, other	184	157	126	152	181	171	182	197	285	290
Social sciences, total	3,324	3,164	3,236	3,324	3,332	3,556	3,610	3,769	3,900	3,877
Economics	1,019	960	1,008	1,062	1,007	1,053	1,051	1,067	1,101	1,153
Agricultural economics	160	139	156	164	145	168	141	137	162	173
Econometrics	25	25	27	26	26	24	25	24	26	26
Economics	834	796	825	872	836	861	885	906	913	954
Political science	659	647	634	700	734	740	804	824	930	893
International relations & affairs <sup>25</sup>	76	82	77	94	97	88	76	102	112	72
Political science, government	414	404	392	430	462	434	513	507	589	600
Public administration	88	78	92	97	88	107	108	117	135	129
Public policy analysis <sup>26</sup>	81	83	73	79	87	111	107	98	94	92
Sociology	506	449	468	458	448	493	512	535	548	554
Demography population studies <sup>27</sup>	15	26	19	22	20	28	17	22	23	15
Sociology	491	423	449	436	428	465	495	513	525	539
Other social sciences	1,140	1,108	1,126	1,104	1,143	1,270	1,243	1,343	1,321	1,277
American studies	68	75	70	76	72	92	81	101	88	94
Anthropology	381	352	325	325	324	341	320	342	384	375
Archaeology	28	31	23	26	22	33	33	38	34	35
Area studies	28	17	16	17	22	24	33	36	34	27
Criminology	24	29	43	32	42	35	37	39	41	44
Geography	120	111	129	105	131	108	111	137	146	150
History/philosophy of science & technology <sup>28</sup>	24	25	22	20	26	27	28	37	26	41
Linguistics	189	199	166	188	167	227	266	214	221	201
Statistics	65	49	47	69	69	31	29	48	46	48
Urban affairs & studies <sup>29</sup>	50	72	86	62	67	90	86	123	132	103
Social sciences, general	36	30	28	26	23	36	33	32	21	35
Social sciences, other	127	118	171	158	178	226	186	196	148	124

See explanatory information, if any, and SOURCE at end of table

**Table 1. Science and engineering (S&E) doctorates awarded,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-S&E, total <sup>30</sup>	12,465	12,476	12,568	12,595	13,200	13,503	14,183	14,330	14,815	15,095
Health	770	800	882	974	956	1,041	1,112	1,197	1,296	1,331
Humanities <sup>31</sup>	3,152	3,170	3,274	3,242	3,535	3,720	4,037	4,095	4,376	4,690
Education	6,649	6,454	6,362	6,281	6,511	6,446	6,644	6,661	6,695	6,546
Professional/Other	1,894	2,052	2,050	2,098	2,198	2,296	2,390	2,377	2,448	2,528
Grand total, all fields	31,902	32,370	33,501	34,326	36,067	37,522	38,856	39,771	41,017	41,610

<sup>1</sup> In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

<sup>2</sup> In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

<sup>3</sup> In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

<sup>4</sup> This subfield was deleted in 1991

<sup>5</sup> In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

<sup>6</sup> In 1993 this subfield was changed from "Atomic/molecular physics" to "Chemical and atomic/molecular physics."

<sup>7</sup> In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

<sup>8</sup> In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

<sup>9</sup> In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

<sup>10</sup> This subfield was introduced in 1995

<sup>11</sup> "Biotechnology research" was introduced in 1993

<sup>12</sup> In 1990 this subfield was changed from "Embryology" to "Developmental biology and embryology"

<sup>13</sup> In 1993 this subfield was changed from "Immunology" to "Biological immunology."

<sup>14</sup> In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science"

<sup>15</sup> This subfield was introduced in 1988.

<sup>16</sup> In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

<sup>17</sup> In 1988 this subfield was changed from "Wildlife management" to "Wildlife and range management"

<sup>18</sup> In 1988 "Food sciences" was separated into "Food distribution," "Food engineering," and "Food sciences, other."

<sup>19</sup> In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1994 and reintroduced in 1995.

<sup>20</sup> "Plant protection-pest management" was introduced in 1988 and deleted in 1991

<sup>21</sup> In 1988 "Soil sciences" was separated into "Soil chemistry and microbiology" and "Soil sciences, other"

<sup>22</sup> In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics"

<sup>23</sup> In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology"

<sup>24</sup> In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology and psychobiology"

<sup>25</sup> In 1993 this subfield was changed from "International relations" to "International relations and affairs"

<sup>26</sup> In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis"

<sup>27</sup> In 1993 this subfield was changed from "Demography" to "Demography and population studies"

<sup>28</sup> In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology"

<sup>29</sup> In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies"

<sup>30</sup> Non-S&E doctorates include those whose field of specialization is unknown

<sup>31</sup> Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science

KEY: N A = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 2. Science and engineering (S&E) doctorates awarded to women,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Percent women	
											1986	1995
S&E total .....	5,167	5,312	5,662	6,109	6,369	6,931	7,080	7,652	7,919	8,273	26.6	31.2
Engineering, total .....	225	242	286	375	415	467	506	522	635	694	6.7	11.6
Aeronautical-astronautical engineering .....	1	10	9	8	4	7	8	8	11	14	8	5.6
Chemical engineering .....	61	60	58	80	78	83	113	94	113	109	11.5	15.4
Chemical .....	53	56	60	74	71	75	101	83	101	96	11.1	15.9
Petroleum .....	1	0	2	1	0	1	3	5	3	1	5.6	2.1
Polymer/plastics <sup>1</sup> .....	7	4	3	5	7	7	9	6	9	12	18.9	20.7
Civil engineering .....	21	18	30	54	49	41	50	54	80	76	4.9	11.6
Civil .....	19	17	25	45	39	31	36	45	56	55	4.9	9.6
Environmental health .....	2	1	5	9	10	10	14	9	24	21	4.8	25.0
Electrical engineering .....	38	32	48	67	84	79	115	125	147	173	4.7	10.0
Communications .....	0	0	3	1	2	2	1	2	5	5	0	17.2
Computer .....	5	2	7	12	11	9	13	15	25	18	6.5	9.5
Electrical/electronics .....	33	30	38	54	71	68	101	108	117	150	4.7	9.9
Industrial manufacturing engineering <sup>2</sup> .....	14	13	19	18	25	17	25	27	33	50	13.9	17.7
Materials/metallurgical engineering .....	24	45	33	45	49	77	61	78	83	94	7.9	16.0
Ceramic sciences <sup>3</sup> .....	3	4	3	4	11	10	9	6	9	5	12.0	12.8
Materials science .....	18	36	25	35	31	59	50	67	69	84	9.6	17.6
Metallurgical .....	3	5	5	6	7	8	2	5	5	5	3.2	6.8
Mechanical engineering .....	18	17	29	29	38	57	45	57	69	63	3.4	6.2
Mechanical .....	14	14	26	22	29	50	33	46	60	55	3.2	6.0
Engineering mechanics .....	4	3	3	7	9	7	12	11	9	8	4.3	7.4
Other engineering .....	48	47	53	74	88	106	89	79	99	115	8.7	15.0
Agricultural .....	1	3	3	6	7	8	6	6	10	7	1.9	9.6
Bioengineering/biomedical .....	9	15	18	26	23	27	33	31	45	48	13.4	25.4
Engineering physics .....	0	1	0	0	1	2	2	3	3	1	0	5.9
Engineering science .....	3	0	3	3	6	3	6	3	3	6	10.0	10.7
Mining/mineral .....	2	1	1	4	2	6	3	1	3	0	9.1	0
Naval architecture-marine <sup>4</sup> .....	0	0	0	1	1	0	N.A.	N.A.	N.A.	N.A.	0	.6
Nuclear .....	6	2	4	7	9	6	9	5	8	9	6.1	8.6
Ocean .....	0	1	0	2	2	1	0	1	2	3	0	14.3
Operations research .....	11	7	4	14	6	22	11	10	7	8	20.4	16.7
Systems .....	2	3	7	3	3	4	3	4	5	5	6.1	10.6
Engineering general .....	5	8	2	2	10	7	3	3	4	9	9.1	15.0
Engineering, other .....	9	6	11	6	18	20	13	12	9	19	8.7	14.5
Sciences total .....	4,942	5,070	5,376	5,734	5,954	6,464	6,574	7,130	7,284	7,579	30.8	37.0
Physical sciences, total .....	510	528	567	619	661	679	770	780	828	878	16.3	22.9
Astronomy .....	9	13	16	17	20	14	19	25	25	30	8.3	17.3
Astronomy .....	4	7	13	8	13	7	11	12	9	18	7.7	20.2
Astrophysics .....	5	6	3	9	7	7	8	13	16	12	8.8	14.3
Chemistry .....	396	406	427	499	503	517	579	582	625	661	20.8	30.6
Analytical .....	46	72	60	63	68	83	95	91	102	109	17.9	34.4
Inorganic .....	62	59	66	74	60	73	69	59	87	92	23.8	35.8
Medicinal pharmaceutical <sup>5</sup> .....	17	16	19	21	20	27	27	38	26	32	29.3	33.3
Nuclear .....	2	0	0	0	2	4	1	0	0	3	11.1	60.0
Organic .....	96	88	89	105	104	108	119	131	128	134	18.8	27.7
Physical .....	71	59	71	87	76	86	109	88	93	93	24.2	27.5
Polymer .....	12	13	12	15	13	24	12	22	23	28	16.7	24.1
Theoretical .....	6	17	9	9	14	7	16	16	17	10	14.6	25.0
Chemistry, general .....	52	53	73	91	128	76	107	112	126	135	18.0	29.5
Chemistry, other .....	32	29	28	34	18	29	24	25	23	25	30.8	49.0

See explanatory information if any, and SOURCE at end of table

**Table 2. Science and engineering (S&E) doctorates awarded to women,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Percent women	
											1986	1995
Physics	100	107	114	101	130	142	167	169	175	182	9.3	12.3
Acoustics	2	0	2	0	2	2	0	1	2	3	13.3	16.7
Chemical & atomic molecular <sup>a</sup>	6	4	8	8	7	4	6	14	17	15	8.6	13.6
Electron <sup>a</sup>	0	0	0	0	0	0	N.A.	N.A.	N.A.	N.A.	0	0
Elementary particle	11	15	16	10	14	20	12	18	16	7	7.5	3.8
Fluids	2	0	0	1	1	0	1	2	1	0	33.3	0
Nuclear	8	4	6	8	5	7	12	8	9	12	9.0	13.2
Optics	9	5	6	7	5	13	9	14	14	13	15.5	13.3
Plasma & high-temperature	3	5	4	4	2	2	4	4	8	5	4.9	10.9
Polymer	3	3	0	1	3	3	1	5	4	3	27.3	13.0
Solid state & low-temperature <sup>a</sup>	29	24	35	23	35	42	53	42	53	57	10.4	15.4
Physics general	18	31	25	19	33	31	42	46	30	41	8.1	11.5
Physics, other	9	16	12	20	23	18	27	15	21	26	7.7	15.7
Other physical sciences	5	2	10	2	8	6	5	4	3	5	16.7	18.5
Earth atmospheric, and ocean sciences, total	95	112	135	148	141	179	188	160	183	170	17.0	21.9
Atmospheric sciences	8	14	11	10	14	16	27	18	26	23	10.3	17.7
Atmospheric dynamics	2	3	2	2	4	3	4	5	9	3	12.5	18.8
Atmospheric physics chemistry	3	4	0	2	1	2	5	2	5	8	14.3	29.6
Meteorology	2	0	7	0	3	7	10	3	8	3	7.4	12.0
Atmospheric science meteorology, general	0	4	1	3	5	3	7	7	4	7	0	15.9
Atmospheric science meteorology, other	1	3	1	3	1	1	1	1	0	2	14.3	11.1
Geosciences	68	76	82	92	85	124	115	89	95	91	19.7	20.0
Applied geology <sup>a</sup>	1	1	0	3	0	N.A.	N.A.	N.A.	N.A.	N.A.	25.0	20.4
Geology	23	25	36	35	32	34	35	35	32	38	19.5	23.8
Geochemistry	7	9	7	13	9	19	16	13	10	10	18.9	20.4
Geomorphology glacial geology	2	2	3	3	1	2	5	3	2	4	18.2	36.4
Geophysics seismology	18	11	8	11	15	20	23	14	24	19	20.2	20.4
Hydrology water resources	1	5	5	2	1	2	7	9	3	4	6.3	16.7
Mineralogy petrology	4	8	3	5	4	15	6	1	6	4	23.5	21.1
Paleontology	7	5	3	4	2	7	2	5	2	3	43.8	15.0
Stratigraphy sedimentation	0	2	8	6	5	8	10	5	4	1	0	6.3
Geological & related sciences, general	1	3	2	2	5	9	4	2	1	4	8.3	19.0
Geological & related sciences other	4	5	6	11	8	8	7	2	11	4	33.3	18.2
Oceanography	11	16	26	26	31	26	29	35	38	28	11.0	24.6
Marine sciences	3	3	9	6	7	2	11	8	11	8	13.6	25.8
Oceanography	8	13	17	20	24	24	18	27	27	20	10.3	24.1
Other environmental sciences	8	6	16	20	11	13	17	18	24	28	22.9	35.0
Mathematical computer sciences total	169	190	177	263	268	316	325	402	373	451	15.0	20.6
Mathematics total	121	125	121	155	158	199	205	264	236	265	16.6	22.3
Algebra	18	10	10	10	6	16	13	28	24	24	39.1	29.3
Analysis functional analysis	11	6	15	20	15	21	18	23	16	18	13.6	18.2
Applied mathematics	20	29	17	28	34	27	44	43	39	47	14.8	22.3
Computing theory	0	4	3	1	1	3	0	3	2	2	0	14.3
Geometry	1	3	4	7	8	5	6	7	4	8	2.6	17.8
Logic	3	2	2	5	3	1	2	4	6	7	13.0	20.0
Mathematical statistics <sup>a</sup>	27	36	31	38	31	56	46	57	50	54	19.1	26.3
Number theory	1	2	5	5	1	8	4	4	5	9	5.0	25.7
Operations research	4	1	3	4	2	4	6	9	9	5	13.8	13.9
Topology	6	3	3	8	11	18	16	9	11	8	17.6	15.7
Mathematics general	20	22	20	17	32	31	37	56	54	64	16.0	21.0
Mathematics other	10	7	8	12	14	9	13	21	16	19	21.3	26.4
Computer sciences, total	48	65	56	108	110	117	120	138	137	186	12.0	18.6
Computer science	39	51	39	69	85	96	91	123	118	160	11.0	17.5
Information science systems	9	14	17	39	25	21	29	15	19	26	20.5	31.0

See explanatory information if any and SOURCE at end of table

**Table 2. Science and engineering (S&E) doctorates awarded to women, by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Percent women	
											1986	1995
Biological agricultural sciences total	1 452	1 531	1 691	1 769	1 860	1 981	2 064	2 278	2 355	2 442	30.2	38.1
Biological sciences total	1 283	1 360	1 505	1 542	1 614	1 772	1 831	2 050	2 106	2 214	33.6	41.2
Bacteriology	2	6	2	2	4	5	5	6	11	6	16.7	46.2
Biochemistry	194	199	203	268	237	289	284	318	320	342	33.7	41.5
Biomedical sciences	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	41	44.1
Biophysics	13	22	21	21	23	26	33	21	33	45	18.1	29.2
Biotechnology research	N/A	N/A	N/A	N/A	N/A	N/A	N/A	4	2	2	50.0	
Plant genetics	10	7	6	3	7	5	8	12	5	12	50.0	34.3
Plant pathology	5	10	9	8	12	13	10	15	11	10	17.9	31.3
Plant physiology	18	15	23	15	19	19	16	19	21	21	34.6	38.2
Botany other	42	36	41	52	33	39	45	43	46	34	34.7	33.3
Anatomy	27	42	32	27	29	31	31	34	29	26	31.4	40.0
Biometrics biostatistics	10	14	15	20	18	29	24	21	33	23	33.3	34.3
Cell biology	44	55	55	57	69	63	80	116	102	117	33.8	49.6
Developmental biology												
embryology	7	0	3	4	12	20	22	25	32	30	77.8	46.9
Ecology	40	38	47	36	52	60	65	67	70	64	21.9	31.5
Endocrinology	6	11	10	10	11	16	12	12	8	6	35.3	30.0
Entomology	22	25	26	23	26	35	35	28	28	27	12.9	22.3
Biological immunology	51	53	91	61	72	76	83	73	74	82	34.9	42.9
Microbiology	118	103	120	124	116	150	157	183	177	188	36.2	44.1
Molecular biology	115	116	130	153	152	182	194	237	268	266	38.6	43.0
Neuroscience	39	48	60	63	76	88	92	110	129	119	32.5	39.0
Nutritional sciences	86	97	89	91	88	70	95	99	102	92	70.5	67.6
Parasitology	3	5	8	5	4	7	8	7	9	7	12.0	50.0
Toxicology	33	34	30	39	36	30	33	43	50	48	31.7	39.0
Human animal genetics	41	54	57	57	73	71	61	76	87	92	45.1	45.5
Human animal pathology	33	48	43	41	32	46	41	45	45	38	36.3	34.9
Human animal pharmacology	81	86	92	99	91	90	92	121	104	127	33.1	46.4
Human animal physiology	77	76	89	105	98	107	82	100	106	103	32.1	39.3
Zoology other	44	44	43	35	37	39	45	32	32	50	28.4	34.5
Biological sciences general	73	81	97	77	140	113	115	113	117	149	34.3	42.6
Biological sciences other	46	35	63	46	47	53	63	70	55	47	36.8	37.3
Agricultural sciences total	172	171	186	227	246	209	233	228	249	228	17.3	22.0
Agronomy & crop science	15	17	19	20	21	11	23	19	17	13	9.4	11.4
Animal breeding genetics	4	3	2	3	3	2	6	4	3	1	16.0	5.3
Animal nutrition	13	13	12	15	13	10	8	7	10	9	20.0	18.0
Dairy science	N/A	N/A	1	1	2	4	2	2	1	3		21.4
Poultry science	N/A	N/A	2	2	3	1	6	6	5	0		0
Animal sciences other	16	16	13	25	11	20	21	19	25	19	17.6	22.4
Fisheries science & management	9	0	8	5	6	4	1	4	11	9	29.0	18.4
Wildlife range management	2	1	8	10	6	8	7	17	13	8	10.0	16.0
Food science	40	48	3	0	N/A	N/A	N/A	N/A	N/A	N/A	33.1	
Food engineering	N/A	N/A	1	1	2	2	2	2	2	0		0
Food sciences other	N/A	N/A	36	53	54	46	60	57	69	54		40.0
Forestry science	17	5	2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	19.3	
Forest biology	N/A	N/A	3	3	8	3	8	7	6	5		20.8
Forest engineering	N/A	N/A	0	0	0	1	0	0	N/A	0		0
Forest management	N/A	N/A	2	2	1	4	1	0	2	6		30.0
Wood science & pulp paper technology	N/A	N/A	0	0	0	2	2	3	6	6		24.0
Conservation renewable natural resources	N/A	N/A	0	1	3	3	1	4	6	5		20.8
Forestry & related sciences other	N/A	N/A	6	8	10	5	9	9	6	13		18.1
Horticulture science	12	16	16	19	27	19	16	15	14	22	20.0	32.8
Plant breeding genetics	13	11	12	13	20	10	12	14	13	15	16.7	20.8
Plant pathology	14	22	12	24	25	26	20	15	20	9	16.5	17.3
Plant protection pest management	N/A	N/A	0	0	1	0	N/A	N/A	N/A	N/A		
Plant sciences other	5	3	3	4	4	4	6	9	9	3	22.7	10.0
Soil sciences	10	7	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	9.7	
Soil chemistry microbiology	N/A	N/A	7	7	6	6	3	5	4	5		18.5
Soil sciences other	N/A	N/A	11	7	8	11	12	4	6	18		25.0
Agricultural sciences general	0	0	3	2	0	1	2	2	0	3	0	50.0
Agricultural sciences other	2	9	3	2	12	6	5	4	1	2	4.4	28.6

See explanatory information, if any, and SOURCE at end of table

**Table 2. Science and engineering (S&E) doctorates awarded to women,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Percent women	
											1986	1995
Psychology, total	1,599	1,698	1,681	1,800	1,913	1,996	1,928	2,088	2,102	2,172	51.2	63.5
Clinical	603	667	612	710	785	848	810	873	842	867	51.4	67.1
Cognitive psychology & psycholinguistics <sup>22</sup>	33	41	34	33	35	46	47	48	56	52	47.1	50.0
Comparative	6	6	4	1	3	5	2	3	7	1	42.9	25.0
Counseling	237	254	261	284	281	306	289	284	310	297	52.6	63.2
Developmental & child <sup>23</sup>	117	139	131	116	112	119	131	155	133	122	63.6	79.7
Educational	58	50	65	60	69	64	69	67	39	53	54.7	71.6
Experimental	64	54	61	70	49	64	73	68	71	83	43.5	55.0
Family & marriage counseling <sup>19</sup>	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	N.A.	35	-	68.6
Industrial organizational	52	49	54	49	53	76	64	73	69	84	47.3	57.9
Physiological psychobiology <sup>24</sup>	30	32	45	33	28	21	25	50	52	35	41.1	37.6
Quantitative	8	7	5	6	3	2	5	11	8	9	34.8	69.2
Personality	9	11	8	17	10	4	8	12	12	9	56.3	66.3
Psychometrics	7	3	6	3	4	3	2	2	1	4	63.6	40.0
School	59	53	66	69	53	57	59	65	53	62	50.9	68.1
Social	79	72	75	68	92	86	78	67	100	84	56.0	54.2
Psychology, general	149	173	196	204	233	185	168	185	158	186	48.2	60.6
Psychology, other	88	87	58	77	103	110	98	125	191	189	47.8	65.2
Social sciences total	1,117	1,011	1,125	1,135	1,111	1,313	1,299	1,422	1,443	1,466	33.6	37.8
Economics	181	163	198	198	200	217	219	246	249	278	17.8	24.1
Agricultural economics	16	24	31	25	27	38	28	31	20	42	10.0	24.3
Econometrics	2	4	4	2	3	5	2	7	4	4	8.0	15.4
Economics	163	135	163	171	170	174	189	208	225	232	19.5	24.3
Political science	196	175	164	201	170	211	235	246	282	266	29.7	29.8
International relations & affairs <sup>25</sup>	15	15	14	29	15	24	24	28	24	21	19.7	29.2
Political science government	117	111	96	107	108	117	142	129	173	167	28.3	27.8
Public administration	30	19	29	37	22	32	30	41	47	43	34.1	33.3
Public policy analysis <sup>26</sup>	34	30	25	28	25	38	39	48	38	35	42.0	38.0
Sociology	221	175	249	232	218	246	250	255	283	294	43.7	53.1
Demography population studies <sup>27</sup>	6	7	11	10	11	16	5	12	12	6	40.0	40.0
Sociology	215	168	238	222	207	230	245	243	271	288	43.8	53.4
Other social sciences	519	498	514	504	523	639	595	675	629	628	45.5	49.2
American studies	38	39	43	48	37	56	47	57	48	53	55.9	56.4
Anthropology	197	181	170	148	173	210	155	213	208	219	51.7	58.4
Archaeology	14	17	8	14	12	20	17	18	17	18	50.0	51.4
Area studies	6	5	5	5	9	5	11	11	17	12	21.4	44.4
Criminology	7	7	15	10	16	18	15	15	12	23	29.2	52.3
Geography	39	26	33	25	35	33	29	40	35	43	32.5	28.7
History philosophy of science & technology <sup>28</sup>	10	10	10	9	9	11	8	16	10	18	41.7	43.9
Linguistics	96	106	83	106	90	112	133	118	134	102	50.8	50.7
Statistics	17	13	9	20	12	10	11	14	16	11	26.2	22.9
Urban affairs & studies <sup>29</sup>	16	22	31	23	21	22	31	44	43	37	32.0	35.9
Social sciences, general	13	6	13	9	9	17	20	13	9	23	36.1	65.7
Social sciences, other	66	66	94	87	100	125	118	116	80	69	52.0	55.6

See explanatory information, if any, and SOURCE at end of table

**Table 2. Science and engineering (S&E) doctorates awarded to women,  
by field of study and year of doctorate: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	Percent women	
											1986	1995
Non-S&E, total <sup>30</sup>	6,140	6,120	6,157	6,404	6,736	6,939	7,340	7,461	7,887	8,060	49.3	53.4
Health	480	475	549	629	592	668	710	777	843	844	62.3	63.4
Humanities <sup>31</sup>	1,406	1,399	1,431	1,436	1,600	1,720	1,858	1,919	2,054	2,254	44.6	48.1
Education	3,613	3,557	3,514	3,610	3,752	3,746	3,960	3,912	4,071	4,032	54.3	61.6
Professional:other	641	689	663	729	792	805	812	853	913	930	33.8	36.8
Grand total, all fields	11,307	11,432	11,819	12,513	13,105	13,870	14,420	15,113	15,806	16,333	35.4	39.3

<sup>1</sup> In 1993 this subfield was changed from "Polymer engineering" to "Polymer and plastics engineering."

<sup>2</sup> In 1993 this subfield was changed from "Industrial engineering" to "Industrial and manufacturing engineering."

<sup>3</sup> In 1993 this subfield was changed from "Ceramic engineering" to "Ceramic sciences engineering."

<sup>4</sup> This subfield was deleted in 1991

<sup>5</sup> In 1993 this subfield was changed from "Pharmaceutical chemistry" to "Medicinal and pharmaceutical chemistry."

<sup>6</sup> In 1993 this subfield was changed from "Atomic molecular physics" to "Chemical and atomic-molecular physics."

<sup>7</sup> In 1993 this subfield was changed from "Plasma physics" to "Plasma and high-temperature physics."

<sup>8</sup> In 1993 this subfield was changed from "Solid state physics" to "Solid state and low-temperature physics."

<sup>9</sup> In 1993 this subfield was changed from "Math probability and statistics" to "Mathematical statistics."

<sup>10</sup> This subfield was introduced in 1995

<sup>11</sup> "Biotechnology research" was introduced in 1993

<sup>12</sup> In 1990 this subfield was changed from "Embryology" to "Developmental biology and embryology."

<sup>13</sup> In 1993 this subfield was changed from "Immunology" to "Biological immunology."

<sup>14</sup> In 1993 this subfield was changed from "Agronomy" to "Agronomy and crop science"

<sup>15</sup> This subfield was introduced in 1988

<sup>16</sup> In 1993 this subfield was changed from "Fisheries science" to "Fisheries science and management."

<sup>17</sup> In 1988 this subfield was changed from "Wildlife management" to "Wildlife and range management."

<sup>18</sup> In 1988 "Food sciences" was separated into "Food distribution," "Food engineering," and "Food sciences, other."

<sup>19</sup> In 1988 "Forestry science" was separated into "Forest biology," "Forest engineering," "Forest management," "Wood science," "Renewable natural resources," and "Forestry and related sciences, other." In 1993 "Pulp and paper technology" was added to "Wood science," and "Conservation" was added to "Renewable natural resources." "Forest engineering" was deleted from the survey in 1991 and reintroduced in 1995.

<sup>20</sup> "Plant protection-pest management" was introduced in 1988 and deleted in 1991

<sup>21</sup> In 1988 "Soil sciences" was separated into "Soil chemistry and microbiology" and "Soil sciences, other."

<sup>22</sup> In 1993 this subfield was changed from "Cognitive psychology" to "Cognitive psychology and psycholinguistics."

<sup>23</sup> In 1993 this subfield was changed from "Developmental psychology" to "Developmental and child psychology."

<sup>24</sup> In 1993 this subfield was changed from "Physiological psychology" to "Physiological psychology and psychobiology."

<sup>25</sup> In 1993 this subfield was changed from "International relations" to "International relations and affairs."

<sup>26</sup> In 1993 this subfield was changed from "Public policy studies" to "Public policy analysis."

<sup>27</sup> In 1993 this subfield was changed from "Demography" to "Demography and population studies."

<sup>28</sup> In 1993 this subfield was changed from "History of science" to "History and philosophy of science and technology."

<sup>29</sup> In 1993 this subfield was changed from "Urban studies" to "Urban affairs and studies."

<sup>30</sup> Non S&E doctorates include those whose field of specialization is unknown

<sup>31</sup> Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science

**KEY:**     = Percent not available as data were not collected that year  
N/A = Not available (i.e., the subfield was not identified separately in the questionnaire for that year)

SOURCE: National Science Foundation SRS, Survey of Earned Doctorates

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents										
Science and engineering, total	14,016	14,055	14,499	14,591	15,363	15,909	15,940	16,570	18,184	18,961
Engineering, total	1,726	1,913	2,146	2,229	2,346	2,474	2,520	2,697	3,053	3,336
Chemical	298	350	408	444	392	399	378	377	380	381
Civil	192	203	233	247	241	213	215	227	292	309
Electrical	410	393	503	539	599	686	719	795	899	971
Mechanical	267	308	327	325	368	359	426	434	538	558
Other engineering	559	659	675	674	746	817	782	864	944	1,117
Sciences, total	12,290	12,142	12,353	12,362	13,017	13,435	13,420	13,873	15,131	15,625
Physical sciences, total	2,166	2,242	2,258	2,131	2,341	2,299	2,356	2,330	2,789	2,840
Astronomy	91	73	104	82	96	86	106	111	112	141
Chemistry	1,413	1,472	1,451	1,383	1,497	1,460	1,440	1,400	1,616	1,623
Physics	643	682	681	654	725	739	790	806	1,044	1,059
Other physical sciences	19	15	22	12	23	14	20	13	17	17
Earth, atmospheric, and ocean sciences	427	435	520	547	535	618	541	504	613	593
Mathematics	402	396	386	428	422	518	507	590	657	771
Computer sciences	249	275	326	396	403	451	489	509	543	617
Biological sciences	3,241	3,141	3,323	3,299	3,379	3,521	3,567	3,751	4,085	4,321
Agricultural sciences	626	632	610	651	687	620	573	506	616	598
Psychology	2,832	2,806	2,729	2,737	2,992	3,018	2,986	3,159	3,137	3,169
Social sciences	2,347	2,215	2,201	2,173	2,258	2,390	2,401	2,524	2,691	2,716
Non-S&E total	10,503	10,507	10,414	10,435	11,240	11,509	12,016	12,105	12,693	12,949
Health	603	646	692	756	756	839	855	939	1,050	1,045
Humanities <sup>1</sup>	2,665	2,672	2,759	2,116	3,082	3,194	3,440	3,512	3,765	4,053
Education	5,802	5,665	5,477	5,110	5,788	5,781	5,985	5,940	6,050	5,895
Professional other	1,433	1,524	1,486	1,553	1,614	1,695	1,736	1,714	1,828	1,956
Grand total, all fields	24,519	24,562	24,913	25,026	26,603	27,418	27,956	28,675	30,877	31,910
U.S. citizens and permanent residents American Indian Alaskan Native										
Science and engineering, total	52	53	44	53	43	56	69	43	64	69
Engineering, total	6	7	4	7	4	6	11	2	6	10
Chemical	0	1	2	1	0	1	1	1	1	2
Civil	0	1	1	1	2	1	1	0	0	0
Electrical	2	3	0	0	0	2	4	0	1	2
Mechanical	2	1	1	0	0	1	1	0	0	2
Other engineering	2	1	0	5	2	1	4	1	4	4
Sciences, total	46	46	40	46	39	50	58	41	58	59
Physical Sciences, total	5	7	6	10	3	10	12	5	6	9
Astronomy	0	0	0	2	0	0	0	1	0	0
Chemistry	5	6	5	5	3	9	6	2	4	7
Physics	0	1	1	3	0	1	6	2	2	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	2	0	2	6	1	3	1	4	1	0
Mathematics	1	0	2	0	1	0	2	1	2	2
Computer sciences	0	3	1	2	0	1	2	1	1	0
Biological sciences	17	11	6	4	10	13	7	16	15	15
Agricultural sciences	0	2	6	2	4	4	0	1	1	2
Psychology	9	16	7	11	19	13	15	15	12	14
Social sciences	12	7	10	8	7	9	13	7	19	17
Non-S&E, total	47	62	50	41	54	76	80	77	78	79
Health	6	3	5	3	1	5	5	6	6	9
Humanities <sup>1</sup>	6	10	4	7	6	10	18	10	20	18
Education	26	41	36	25	37	56	50	51	36	40
Professional/other	9	8	5	6	10	5	7	10	16	12
Grand total, all fields	99	115	94	94	97	132	149	120	142	148

See explanatory information if any and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents, Asian										
Science and engineering total	816	925	916	986	1,009	1,180	1,344	1,610	2,589	3,666
Engineering total	262	327	332	361	359	405	451	527	867	1,031
Chemical	58	60	67	77	51	50	54	62	96	101
Civil	26	34	27	36	26	30	34	41	69	91
Electrical	71	78	103	93	115	140	175	199	304	322
Mechanical	31	61	57	66	69	62	78	93	179	189
Other engineering	76	94	78	89	96	123	110	132	219	328
Sciences total	554	598	584	625	650	775	893	1,083	2,122	2,635
Physical sciences, total	147	143	138	156	164	172	226	265	600	751
Astronomy	6	1	5	2	5	0	4	4	10	22
Chemistry	110	108	85	96	99	122	134	157	332	416
Physics	31	34	47	57	58	50	88	103	255	312
Other physical sciences	0	0	1	1	2	0	0	1	3	1
Earth, atmospheric, and ocean sciences	14	18	14	23	15	17	27	22	89	104
Mathematics	28	41	33	24	27	57	52	79	142	208
Computer sciences	37	26	44	52	48	66	86	77	117	138
Biological sciences	168	170	171	201	200	261	269	370	720	924
Agricultural sciences	22	38	30	23	32	24	37	29	72	78
Psychology	42	48	47	55	53	59	59	73	109	121
Social sciences	96	114	107	91	111	119	137	168	273	311
Non-S&E total	245	243	319	282	297	351	417	402	556	634
Health	30	35	30	22	39	44	52	45	94	94
Humanities	42	53	64	79	62	81	99	108	151	193
Education	95	95	130	122	104	130	142	141	172	174
Professional other	78	60	95	79	92	96	124	108	139	173
Grand total, all fields	1,061	1,168	1,235	1,268	1,306	1,531	1,761	2,012	3,545	4,300
U.S. citizens and permanent residents, black										
Science and engineering total	339	319	361	366	373	459	407	468	496	557
Engineering total	24	25	31	33	40	55	49	50	54	71
Chemical	4	4	7	5	10	8	13	6	8	3
Civil	4	4	1	5	1	12	3	5	8	11
Electrical	4	3	7	9	8	16	17	15	17	24
Mechanical	3	3	1	5	5	3	5	3	7	14
Other engineering	9	11	15	9	16	16	11	21	14	19
Sciences total	315	294	330	333	333	404	358	416	442	486
Physical sciences, total	27	20	34	31	30	31	25	41	46	43
Astronomy	0	2	0	0	1	0	1	2	0	1
Chemistry	18	13	22	26	24	22	17	31	34	33
Physics	8	5	12	5	5	9	6	7	11	9
Other physical sciences	1	0	0	0	0	0	1	1	1	0
Earth, atmospheric, and ocean sciences	0	2	3	4	3	3	6	4	6	3
Mathematics	6	11	4	8	4	11	4	8	11	5
Computer sciences	1	2	2	1	1	8	5	6	10	11
Biological sciences	48	60	48	56	50	60	61	74	75	105
Agricultural sciences	16	13	20	14	15	17	14	16	22	17
Psychology	111	93	105	97	115	130	106	119	124	150
Social sciences	106	93	114	122	115	144	137	150	148	152
Non-S&E total	617	591	609	596	676	701	706	809	778	898
Health	21	31	32	29	32	40	38	59	46	60
Humanities	67	73	76	71	72	92	90	98	107	114
Education	464	417	417	432	496	471	499	555	519	610
Professional other	65	70	84	64	76	98	79	97	106	114
Grand total, all fields	956	910	970	962	1,049	1,160	1,113	1,277	1,274	1,455

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents. Hispanic										
Science and engineering, total	345	357	397	382	468	492	513	542	548	568
Engineering, total	35	34	63	47	54	60	71	66	66	77
Chemical	4	11	5	9	8	11	16	10	7	13
Civil	7	1	13	8	9	5	7	12	14	11
Electrical	9	6	14	14	13	15	17	17	21	15
Mechanical	6	5	7	3	5	9	11	5	8	8
Other engineering	9	11	24	15	19	20	20	22	16	30
Sciences, total	310	323	334	335	414	432	442	476	482	491
Physical sciences, total	41	56	63	59	72	65	72	79	90	73
Astronomy	2	0	2	2	2	1	4	2	2	4
Chemistry	25	44	48	43	57	46	42	51	59	43
Physics	13	12	13	14	13	18	26	26	29	26
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	4	5	7	9	13	16	16	13	8	12
Mathematics	12	11	4	11	10	9	12	16	13	15
Computer sciences	7	4	2	4	5	12	8	7	7	6
Biological sciences	66	62	76	71	89	95	102	114	131	126
Agricultural sciences	17	15	21	18	23	15	18	20	25	21
Psychology	90	95	93	93	109	122	133	131	133	145
Social sciences	73	75	68	70	93	98	81	96	75	93
Non-S&E, total	334	351	296	312	369	375	396	431	481	487
Health	12	11	13	11	17	16	13	24	25	30
Humanities <sup>1</sup>	91	114	102	100	127	136	129	145	167	153
Education	204	201	158	171	190	189	214	222	241	255
Professional/other	27	25	23	30	35	34	40	40	48	49
Grand total, all fields	679	708	693	694	837	867	909	973	1,029	1,055
U.S. citizens and permanent residents, Puerto Rican										
Science and engineering, total	74	86	96	93	115	99	120	112	131	137
Engineering, total	11	4	13	7	6	9	13	10	10	13
Chemical	2	1	0	1	2	2	3	2	2	4
Civil	1	0	6	1	1	1	1	1	1	1
Electrical	4	2	2	1	2	0	3	5	3	3
Mechanical	0	0	1	3	0	2	1	1	1	1
Other engineering	4	1	4	1	1	4	5	1	3	4
Sciences, total	63	82	83	86	109	90	107	102	121	124
Physical sciences, total	9	26	23	20	24	17	20	17	26	21
Astronomy	0	0	0	1	1	0	1	0	0	1
Chemistry	5	26	19	16	20	14	14	14	19	17
Physics	4	0	4	3	3	3	5	3	7	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	0	0	5	0	3	1	0	2
Mathematics	3	6	1	4	2	0	2	1	1	1
Computer sciences	2	1	0	0	2	3	1	1	4	0
Biological sciences	12	18	20	18	24	23	27	27	28	30
Agricultural sciences	4	6	2	7	5	0	3	10	5	3
Psychology	17	15	26	21	26	20	35	24	43	44
Social sciences	15	10	11	16	21	27	16	21	14	23
Non S&E, total	64	93	78	83	95	92	109	120	126	132
Health	4	3	4	4	6	3	4	3	6	12
Humanities <sup>1</sup>	11	29	23	22	28	30	22	36	38	30
Education	45	52	44	52	56	52	76	70	68	69
Professional other	4	9	7	5	5	7	7	11	14	21
Grand total, all fields	138	179	174	176	210	191	229	232	257	269

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents, Mexican American										
Science and engineering, total	81	79	94	95	104	126	120	122	145	150
Engineering total	5	8	11	14	13	14	10	12	15	19
Chemical	1	1	0	4	2	4	1	1	1	3
Civil	1	1	0	1	2	2	2	0	2	7
Electrical	1	1	2	3	4	3	3	2	4	3
Mechanical	2	1	1	0	3	3	2	0	2	2
Other engineering	0	4	8	6	2	2	2	9	6	4
Sciences, total	76	71	83	81	91	112	110	110	130	131
Physical sciences, total	12	9	12	11	11	15	9	12	24	13
Astronomy	0	0	1	0	0	0	0	0	1	1
Chemistry	10	4	10	10	11	12	6	8	19	8
Physics	2	5	1	1	0	3	3	4	4	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth atmospheric, and ocean sciences	0	2	4	2	3	4	7	2	4	4
Mathematics	3	0	0	2	3	3	4	4	4	6
Computer sciences	0	1	0	0	0	0	3	1	2	3
Biological sciences	9	10	14	12	22	26	24	24	30	28
Agricultural sciences	4	3	3	3	8	5	5	4	6	4
Psychology	29	27	28	31	25	35	37	42	40	48
Social sciences	19	19	22	17	19	24	21	21	20	25
Non-S&E, total	114	100	96	83	86	106	99	130	163	139
Health	3	3	3	5	7	3	5	8	5	8
Humanities	23	17	21	22	19	27	24	35	42	34
Education	81	73	63	50	50	67	58	74	102	92
Professional/other	7	7	9	6	10	9	12	13	14	5
Grand total, all fields	195	179	190	178	190	232	219	252	308	289
U.S. citizens and permanent residents, other Hispanic										
Science and engineering, total	190	192	207	194	249	267	273	308	272	281
Engineering total	19	22	39	26	35	37	48	44	41	45
Chemical	1	9	5	4	4	5	12	7	4	6
Civil	5	0	7	6	6	2	4	11	11	3
Electrical	4	3	10	10	7	12	11	10	14	9
Mechanical	4	4	5	0	2	4	8	4	5	5
Other engineering	5	6	12	6	16	14	13	12	7	22
Sciences, total	171	170	168	168	214	230	225	264	231	236
Physical sciences total	20	21	28	28	37	33	43	50	40	39
Astronomy	2	0	1	1	1	1	3	2	1	2
Chemistry	10	14	19	17	26	20	22	29	21	18
Physics	7	7	8	10	10	12	18	19	18	19
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	3	3	3	7	5	12	6	10	4	6
Mathematics	6	5	3	5	5	6	6	11	8	8
Computer sciences	5	2	2	4	3	9	4	5	1	3
Biological sciences	45	34	42	41	43	46	51	51	73	68
Agricultural sciences	9	6	16	5	10	10	10	6	14	14
Psychology	44	53	39	41	58	67	61	65	50	53
Social sciences	39	46	35	37	53	47	44	54	41	45
Non-S&E, total	156	158	122	146	188	177	188	181	192	216
Health	5	5	6	2	4	10	4	13	14	10
Humanities	57	68	58	56	80	79	83	74	87	89
Education	78	76	51	69	84	70	80	78	71	94
Professional/other	16	9	7	19	20	18	21	16	20	23
Grand total, all fields	346	350	329	340	437	444	461	489	464	497

See explanatory information at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens and permanent residents, white										
Science and engineering total	12,151	12,052	12,456	12,501	13,170	13,323	13,326	13,735	13,890	13,879
Engineering, total	1,354	1,458	1,655	1,726	1,840	1,837	1,880	2,025	2,020	2,086
Chemical	227	266	317	345	318	322	284	295	259	256
Civil	152	158	183	191	196	159	166	168	199	194
Electrical	319	283	363	405	450	478	487	553	548	588
Mechanical	210	230	253	241	286	266	326	328	337	334
Other engineering	446	521	539	544	590	612	617	681	677	714
Sciences total	10,797	10,594	10,801	10,775	11,330	11,486	11,446	11,710	11,870	11,793
Physical sciences total	1,875	1,956	1,948	1,828	2,008	1,968	1,973	1,911	2,025	1,921
Astronomy	79	69	93	74	86	83	95	100	97	111
Chemistry	1,209	1,267	1,258	1,188	1,284	1,239	1,219	1,145	1,179	1,110
Physics	571	606	577	555	618	633	641	656	736	686
Other physical sciences	16	14	20	11	20	13	18	10	13	14
Earth, atmospheric, and ocean sciences	397	394	480	498	494	557	485	455	504	464
Mathematics	343	319	332	369	372	419	425	476	479	535
Computer sciences	194	229	265	319	339	355	378	410	401	453
Biological sciences	2,888	2,759	2,966	2,904	2,975	3,041	3,068	3,146	3,108	3,116
Agricultural sciences	557	554	518	570	601	545	493	438	487	473
Psychology	2,548	2,516	2,445	2,453	2,648	2,652	2,636	2,805	2,731	2,715
Social sciences	1,995	1,867	1,847	1,834	1,893	1,949	1,988	2,069	2,135	2,116
Non-S&E, total	9,085	9,070	9,005	9,069	9,709	9,856	10,273	10,292	10,695	10,729
Health	524	553	606	684	662	720	735	800	867	835
Humanities	2,401	2,363	2,471	2,399	2,766	2,821	3,061	3,109	3,282	3,520
Education	4,923	4,820	4,668	4,631	4,901	4,883	5,025	4,942	5,035	4,779
Professional other	1,237	1,334	1,260	1,352	1,380	1,432	1,452	1,441	1,511	1,595
Grand total all fields	21,236	21,122	21,461	21,570	22,879	23,179	23,599	24,027	24,585	24,608
U S citizens and permanent residents, male										
Science and engineering total	9,649	9,631	9,888	9,670	10,182	10,313	10,363	10,541	11,691	12,069
Engineering, total	1,564	1,739	1,950	1,954	2,070	2,158	2,192	2,349	2,605	2,818
Chemical	256	298	355	375	330	339	296	313	302	293
Civil	177	192	218	207	207	188	192	195	237	257
Electrical	385	378	470	503	552	638	652	715	811	851
Mechanical	254	297	310	306	344	322	401	398	484	510
Other engineering	492	574	597	563	637	671	651	728	771	907
Sciences, total	8,085	7,892	7,938	7,716	8,112	8,155	8,171	8,197	9,086	9,251
Physical sciences total	1,790	1,843	1,848	1,694	1,871	1,845	1,842	1,8	2,164	2,132
Astronomy	84	64	90	69	78	79	91	88	91	116
Chemistry	1,104	1,145	1,123	1,018	1,114	1,092	1,039	999	1,152	1,086
Physics	588	620	621	596	663	663	696	712	907	916
Other physical sciences	14	14	14	11	16	11	16	10	14	14
Earth, atmospheric, and ocean sciences	351	346	408	427	417	461	394	384	469	449
Mathematics	329	319	316	327	329	406	390	426	506	588
Computer sciences	206	221	280	312	313	357	406	400	449	474
Biological sciences	2,125	1,997	2,071	2,023	2,068	2,132	2,129	2,167	2,344	2,467
Agricultural sciences	503	506	482	487	528	483	423	372	456	463
Psychology	1,362	1,277	1,217	1,174	1,220	1,128	1,206	1,221	1,169	1,125
Social sciences	1,419	1,383	1,316	1,272	1,366	1,343	1,381	1,418	1,529	1,553
Non-S&E, total	5,057	5,060	5,001	4,864	5,174	5,290	5,430	5,418	5,677	5,746
Health	179	231	216	225	239	252	226	260	328	325
Humanities	1,466	1,451	1,515	1,473	1,660	1,703	1,832	1,815	1,977	2,075
Education	2,526	2,453	2,337	2,221	2,359	2,342	2,330	2,359	2,306	2,201
Professional other	886	925	933	945	916	993	1,042	984	1,066	1,145
Grand total all fields	14,706	14,691	14,889	14,534	15,356	15,603	15,793	15,964	17,368	17,815

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents male American Indian/Alaskan Native										
Science and engineering, total	33	32	29	33	25	37	42	25	40	44
Engineering, total	5	7	4	5	4	4	8	2	4	10
Chemical	0	1	2	1	0	0	1	1	1	2
Civil	0	1	1	0	2	1	0	0	0	0
Electrical	2	3	0	0	0	1	3	0	1	2
Mechanical	2	1	1	0	0	1	1	0	0	2
Other engineering	1	1	0	4	2	1	3	1	2	4
Sciences, total	28	25	25	28	21	33	34	23	36	34
Physical sciences, total	3	5	5	10	3	8	10	3	5	6
Astronomy	0	0	0	2	0	0	0	1	0	0
Chemistry	3	4	5	5	3	7	4	1	4	4
Physics	0	1	0	3	0	1	6	1	1	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth atmospheric, and ocean sciences	1	0	1	4	0	2	1	4	1	0
Mathematics	0	0	2	0	1	0	1	1	2	1
Computer sciences	0	2	1	1	0	1	2	0	0	0
Biological sciences	11	7	4	4	3	6	8	5	11	10
Agricultural sciences	0	2	4	1	4	4	0	1	1	2
Psychology	4	4	3	3	0	5	6	6	5	6
Social sciences	9	5	5	5	4	7	6	3	11	9
Non-S&E, total	25	30	23	16	27	37	40	35	31	37
Health	0	1	1	0	1	3	3	0	1	2
Humanities <sup>1</sup>	5	6	0	2	4	3	3	12	12	10
Education	16	18	18	10	16	29	20	21	10	16
Professional other	4	5	4	4	6	2	5	7	8	9
Grand total, all fields	58	62	52	49	52	74	82	60	71	81
U.S. citizens and permanent residents male, Asian										
Science and engineering, total	621	694	694	727	757	806	926	1,079	2,169	2,557
Engineering, total	247	305	314	327	326	356	390	466	748	863
Chemical	52	54	61	66	40	41	38	55	71	76
Civil	26	32	26	33	25	26	32	39	65	77
Electrical	67	75	97	85	109	135	154	174	273	276
Mechanical	31	61	57	65	66	59	74	90	155	167
Other engineering	71	83	73	78	86	95	92	108	184	267
Sciences, total	374	389	380	418	431	450	536	613	1,421	1,694
Physical sciences, total	106	107	96	120	122	124	146	168	422	540
Astronomy	4	1	4	0	3	0	2	2	9	18
Chemistry	75	77	57	73	70	86	78	85	203	270
Physics	27	29	34	46	47	38	66	80	208	251
Other physical sciences	0	0	1	1	2	0	0	1	2	1
Earth, atmospheric, and ocean sciences	13	15	10	19	14	11	19	14	72	76
Mathematics	23	30	22	21	20	39	33	43	116	158
Computer sciences	34	20	38	42	41	51	74	58	101	108
Biological sciences	101	93	98	112	113	132	136	198	451	515
Agricultural sciences	18	31	23	17	26	16	25	20	52	62
Psychology	18	17	20	28	22	15	20	22	32	44
Social sciences	61	76	73	59	73	62	83	90	175	191
Non-S&E, total	145	130	176	160	152	166	208	203	300	311
Health	18	18	18	13	17	21	22	22	48	52
Humanities <sup>1</sup>	16	22	31	42	28	39	48	42	84	83
Education	45	46	59	43	39	45	47	55	66	59
Professional other	66	44	68	62	68	61	91	84	102	117
Grand total, all fields	766	824	870	905	909	972	1,134	1,282	2,469	2,868

See explanatory information if any and SOURCE at end of table

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**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens and permanent residents, male, black										
Science and engineering, total	187	189	224	213	225	266	237	260	282	289
Engineering, total	20	24	27	30	34	47	43	39	41	56
Chemical	3	4	6	1	8	7	12	3	4	2
Civil	3	4	1	5	1	10	3	3	5	8
Electrical	4	3	5	9	7	14	15	13	14	26
Mechanical	2	3	1	5	5	2	5	3	6	13
Other engineering	8	10	14	7	13	14	8	17	11	13
Sciences, total	167	165	197	183	191	219	194	221	241	233
Physical sciences total	23	17	26	24	23	26	19	31	33	25
Astronomy	0	2	0	0	1	0	0	2	0	1
Chemistry	15	11	15	19	17	17	12	22	25	16
Physics	7	4	11	5	5	9	6	7	7	8
Other physical sciences	1	0	0	0	0	0	1	0	1	0
Earth, atmospheric, and ocean sciences	0	1	3	3	1	2	5	4	5	3
Mathematics	3	9	4	5	3	7	4	7	8	4
Computer sciences	1	1	2	0	1	4	4	2	8	7
Biological sciences	26	35	25	32	29	29	37	42	32	64
Agricultural sciences	13	10	15	13	14	16	10	12	16	11
Psychology	43	34	47	36	43	44	28	44	46	38
Social sciences	58	58	75	70	77	91	87	79	93	81
Non-S&E, total	244	247	219	239	254	282	280	317	270	319
Health	6	12	8	9	14	17	14	18	11	18
Humanities	32	34	40	35	37	44	47	56	52	53
Education	174	162	140	162	169	179	173	200	161	198
Professional other	32	39	31	33	34	42	46	43	46	50
Grand total, all fields	431	436	443	452	479	548	517	577	552	608
U S citizens and permanent residents, male, Hispanic										
Science and engineering total	227	216	248	227	290	306	308	320	318	336
Engineering total	32	29	57	39	45	50	56	54	60	66
Chemical	2	8	5	5	7	7	12	7	7	11
Civil	7	1	12	8	7	3	6	10	11	10
Electrical	8	6	12	13	12	15	14	14	21	14
Mechanical	6	5	6	2	4	7	9	5	7	8
Other engineering	9	9	22	11	15	18	15	18	14	23
Sciences, total	195	187	191	188	245	256	252	266	258	270
Physical sciences total:	32	39	47	41	46	54	52	59	69	52
Astronomy	1	0	2	2	2	1	3	2	2	2
Chemistry	19	29	35	26	33	37	26	33	43	29
Physics	11	10	10	13	11	16	23	24	24	21
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	3	4	3	6	9	14	10	11	6	6
Mathematics	9	9	4	7	6	5	9	14	10	11
Computer sciences	7	4	2	1	4	11	7	6	7	2
Biological sciences	39	38	49	50	56	56	59	57	69	79
Agricultural sciences	11	11	19	15	17	12	14	15	13	16
Psychology	47	32	38	30	52	52	55	45	43	48
Social sciences	47	50	29	38	55	52	46	59	41	56
Non S&E total	146	166	137	149	159	152	174	197	199	200
Health	5	3	7	4	2	7	4	8	7	15
Humanities	45	62	47	51	52	64	66	72	78	71
Education	76	86	66	73	85	65	82	94	82	91
Professional other	20	15	17	21	20	16	22	23	32	23
Grand total, all fields	373	382	385	376	449	458	482	517	517	536

See explanatory information in my and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents, male Puerto Rican										
Science and engineering total	49	53	52	54	67	52	71	70	72	74
Engineering total	9	3	11	6	4	7	10	8	10	11
Chemical	0	1	0	1	2	1	3	2	2	3
Civil	1	0	5	1	1	1	1	0	1	1
Electrical	4	2	2	1	1	0	2	4	3	3
Mechanical	0	0	1	2	0	2	0	1	1	1
Other engineering	4	0	3	1	0	3	4	1	3	3
Sciences, total	40	50	47	48	63	45	61	62	62	63
Physical sciences total	8	17	16	16	14	11	14	12	19	12
Astronomy	0	0	0	1	1	0	1	0	0	0
Chemistry	4	17	13	12	10	9	9	9	13	9
Physics	4	0	3	3	3	2	4	3	6	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	0	0	4	0	3	1	0	1
Mathematics	2	4	1	1	2	0	1	1	1	0
Computer sciences	2	1	0	0	2	3	1	0	4	0
Biological sciences	9	11	12	14	14	12	16	16	14	21
Agricultural sciences	3	3	2	5	4	0	3	7	2	3
Psychology	8	8	12	5	11	6	16	13	13	13
Social sciences	7	6	6	7	12	13	7	12	9	13
Non-S&E, total	28	41	30	32	37	32	39	51	51	46
Health	2	0	2	1	0	2	3	0	2	7
Humanities	4	18	9	10	8	11	10	18	16	14
Education	20	19	15	17	26	16	23	25	23	19
Professional other	2	4	4	4	3	3	3	8	10	6
Grand total, all fields	77	94	88	86	104	84	110	121	123	120
U.S. citizens and permanent residents, male Mexican American										
Science and engineering, total	54	52	59	57	67	84	79	73	87	89
Engineering total	5	7	11	9	11	12	10	10	13	18
Chemical	1	1	0	1	2	3	1	1	1	2
Civil	1	1	0	1	1	2	2	0	2	7
Electrical	1	1	2	2	4	3	3	2	4	3
Mechanical	2	1	1	0	2	2	2	0	2	2
Other engineering	0	3	8	5	2	2	2	7	4	4
Sciences, total	49	45	48	48	56	72	69	63	74	71
Physical sciences total	9	8	11	9	8	12	7	9	20	9
Astronomy	0	0	1	0	0	0	0	0	1	0
Chemistry	8	4	9	8	8	10	4	6	16	6
Physics	1	4	1	1	0	2	3	3	3	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	2	2	2	2	4	5	2	4	3
Mathematics	2	0	0	2	1	1	4	3	3	4
Computer sciences	0	1	0	0	0	0	0	3	1	1
Biological sciences	3	6	12	9	15	19	11	13	17	17
Agricultural sciences	2	3	1	6	7	4	4	3	4	3
Psychology	20	11	9	10	11	20	19	16	17	15
Social sciences	13	14	13	10	12	12	16	16	7	19
Non-S&E, total	53	55	54	46	51	48	46	59	74	70
Health	2	1	2	3	1	0	0	3	2	3
Humanities <sup>1</sup>	15	13	12	12	11	14	14	19	23	21
Education	32	36	33	26	31	28	26	30	38	42
Professional/other	4	5	7	5	8	6	6	7	11	4
Grand total, all fields	107	107	113	103	118	132	125	132	161	159

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents, male, other Hispanic										
Science and engineering, total	124	111	131	116	156	170	158	177	159	173
Engineering, total	18	19	35	24	30	31	36	36	37	37
Chemical	1	6	5	3	3	3	8	4	4	6
Civil	5	0	7	6	5	0	3	10	8	2
Electrical	3	3	8	10	7	12	9	8	14	8
Mechanical	4	4	4	0	2	3	7	4	4	5
Other engineering	5	6	11	5	13	13	9	10	7	16
Sciences, total	106	92	96	92	126	139	122	141	122	136
Physical sciences total	15	14	20	16	24	31	31	38	30	31
Astronomy	1	0	1	1	1	1	2	2	1	2
Chemistry	7	8	13	6	15	18	13	18	14	14
Physics	6	6	6	9	8	12	16	18	15	15
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	2	2	1	4	3	10	2	8	2	2
Mathematics	5	5	3	4	3	4	4	10	6	7
Computer sciences	5	2	2	1	2	8	3	5	1	1
Biological sciences	27	21	27	27	27	25	32	28	38	41
Agricultural sciences	6	5	16	4	6	8	7	5	7	10
Psychology	19	13	17	15	30	26	20	16	13	20
Social sciences	27	30	10	21	31	27	23	31	25	24
Non-S&E, total	65	70	53	71	71	72	89	87	74	84
Health	1	2	3	0	1	5	1	5	3	5
Humanities <sup>1</sup>	26	31	26	24	33	39	42	35	39	36
Education	24	31	1	1	28	21	33	39	21	30
Professional other	14	6	6	12	9	7	13	8	11	13
Grand total all fields	189	181	184	187	227	242	247	264	233	257
U.S. citizens and permanent residents, male, white										
Science and engineering total	8,333	8,222	8,428	8,213	8,648	8,584	8,623	8,723	8,731	8,670
Engineering total	1,218	1,314	1,492	1,502	1,614	1,602	1,640	1,764	1,715	1,766
Chemical	196	223	272	293	270	277	225	244	211	196
Civil	139	149	171	157	167	143	147	143	153	160
Electrical	299	271	341	378	411	444	447	504	494	522
Mechanical	198	219	237	224	267	236	307	296	311	309
Other engineering	386	452	471	450	499	502	514	577	546	579
Sciences total	7,115	6,908	6,936	6,711	7,034	6,982	6,983	6,959	7,016	6,904
Physical sciences total	1,564	1,622	1,609	1,454	1,623	1,585	1,574	1,523	1,617	1,474
Astronomy	76	60	2	70	77	84	79	78	92	92
Chemistry	953	996	981	981	969	926	901	846	872	759
Physics	524	553	535	509	570	572	575	590	656	612
Other physical sciences	11	13	12	10	14	10	14	8	11	11
Earth, atmospheric, and ocean sciences	324	310	380	388	385	415	353	345	381	356
Mathematics	282	258	273	281	293	335	332	352	361	409
Computer sciences	154	134	225	252	259	282	309	327	326	349
Biological sciences	1,911	1,764	1,852	1,784	1,821	1,871	1,847	1,835	1,759	1,772
Agricultural sciences	447	445	408	421	455	422	364	323	367	369
Psychology	1,235	1,170	1,094	1,065	1,075	991	1,078	1,094	1,029	980
Social sciences	1,198	1,155	1,095	1,066	1,123	1,081	1,126	1,160	1,176	1,195
Non-S&E, total	4,391	4,388	4,368	4,215	4,513	4,564	4,642	4,608	4,825	4,815
Health	142	191	179	195	203	199	177	208	258	234
Humanities <sup>1</sup>	1,330	1,292	1,368	1,302	1,505	1,516	1,629	1,606	1,726	1,821
Education	2,168	2,102	2,023	1,911	2,030	1,997	1,983	1,977	1,967	1,823
Professional other	751	803	798	807	775	852	853	817	874	937
Grand total all fields	12,724	12,610	12,796	12,423	13,161	13,148	13,265	13,331	13,556	13,485

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents, female										
Science and engineering total	4,367	4,424	4,611	4,921	5,181	5,596	5,577	6,024	6,493	6,892
Engineering, total	162	174	196	275	276	316	328	348	448	518
Chemical	42	52	53	69	62	60	82	64	78	88
Civil	15	11	15	40	34	25	23	32	55	52
Electrical	25	15	33	36	47	48	67	80	88	120
Mechanical	13	11	17	19	24	37	25	36	54	48
Other engineering	67	85	78	111	109	146	131	136	173	210
Sciences, total	4,205	4,250	4,415	4,646	4,905	5,280	5,249	5,676	6,045	6,374
Physical sciences total	376	399	410	437	470	454	514	521	625	708
Astronomy	7	9	14	13	18	7	15	23	21	25
Chemistry	309	327	328	365	383	368	401	401	464	537
Physics	55	62	60	58	62	76	94	94	137	143
Other physical sciences	5	1	8	1	7	3	4	3	3	3
Earth, atmospheric, and ocean sciences	76	89	112	120	118	157	147	120	144	144
Mathematics	73	77	70	101	93	112	117	164	151	183
Computer sciences	43	54	46	84	90	94	83	109	94	143
Biological sciences	1,116	1,144	1,252	1,276	1,311	1,389	1,438	1,584	1,741	1,854
Agricultural sciences	123	126	128	164	159	137	150	134	160	135
Psychology	1,470	1,529	1,512	1,563	1,772	1,890	1,780	1,938	1,968	2,044
Social sciences	928	832	885	901	892	1,047	1,020	1,106	1,162	1,163
Non-S&E, total	5,446	5,447	5,413	5,571	6,066	6,219	6,586	6,687	7,016	7,203
Health	424	415	476	531	517	587	629	679	722	720
Humanities <sup>1</sup>	1,199	1,221	1,244	1,243	1,422	1,491	1,608	1,697	1,788	1,978
Education	3,276	3,212	3,140	3,189	3,429	3,439	3,655	3,581	3,744	3,694
Professional other	547	599	553	608	698	702	694	730	762	811
Grand total, all fields	9,813	9,871	10,024	10,492	11,247	11,815	12,163	12,711	13,509	14,095
U.S. citizens and permanent residents, female, American Indian/Alaskan Native										
Science and engineering total	19	21	15	20	18	19	27	18	24	25
Engineering, total	1	0	0	2	0	2	3	0	2	0
Chemical	0	0	0	0	0	1	0	0	0	0
Civil	0	0	0	1	0	0	1	0	0	0
Electrical	0	0	0	0	0	1	1	0	0	0
Mechanical	0	0	0	0	0	0	0	0	0	0
Other engineering	1	0	0	1	0	0	1	0	2	0
Sciences, total	18	21	15	18	18	17	24	18	22	25
Physical sciences, total	2	2	1	0	0	2	2	2	1	3
Astronomy	0	0	0	0	0	0	0	0	0	0
Chemistry	2	2	0	0	0	2	2	1	0	3
Physics	0	0	1	0	0	0	0	1	1	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	1	2	1	1	0	0	0	0
Mathematics	1	0	0	0	0	0	1	0	0	1
Computer sciences	0	1	0	1	0	0	0	1	1	0
Biological sciences	6	4	2	3	1	4	5	2	5	5
Agricultural sciences	0	0	2	1	0	0	0	0	0	0
Psychology	5	12	4	8	13	8	9	9	7	8
Social sciences	3	2	5	3	3	2	7	4	8	8
Non-S&E, total	22	32	27	25	27	39	40	42	47	42
Health	6	2	4	3	0	2	2	6	5	7
Humanities <sup>1</sup>	1	4	4	5	2	7	6	3	8	8
Education	10	23	18	15	21	27	30	30	26	24
Professional other	5	3	1	2	4	3	2	3	8	3
Grand total, all fields	41	53	42	45	45	58	67	60	71	67

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens and permanent residents, female, Asian										
Science and engineering, total . . . . .	195	231	222	241	252	374	418	531	820	1,109
Engineering, total . . . . .	15	22	18	34	33	49	61	61	119	168
Chemical . . . . .	6	6	6	11	11	9	16	7	25	25
Civil . . . . .	0	2	1	3	3	4	2	2	4	14
Electrical . . . . .	4	3	6	8	6	5	21	25	31	46
Mechanical . . . . .	0	0	0	1	3	3	4	3	24	22
Other engineering . . . . .	5	11	5	11	10	28	18	24	35	61
Sciences, total . . . . .	180	209	204	207	219	325	357	470	701	941
Physical sciences, total . . . . .	41	36	42	36	42	48	80	97	178	211
Astronomy . . . . .	2	0	1	2	2	0	2	2	1	4
Chemistry . . . . .	35	31	28	23	29	36	56	72	129	146
Physics . . . . .	4	5	13	11	11	12	22	23	47	61
Other physical sciences . . . . .	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, and ocean sciences . . . . .	1	3	4	4	1	6	8	8	17	28
Mathematics . . . . .	5	11	11	3	7	18	19	36	26	50
Computer sciences . . . . .	3	6	6	10	7	15	12	19	16	30
Biological sciences . . . . .	67	77	73	89	87	129	133	172	269	409
Agricultural sciences . . . . .	4	7	7	6	6	8	12	9	20	16
Psychology . . . . .	24	31	27	27	31	44	39	51	77	77
Social sciences . . . . .	35	38	34	32	38	57	54	78	98	120
Non-S&E, total . . . . .	100	113	143	122	145	185	209	199	256	323
Health . . . . .	12	17	12	9	22	23	30	23	46	42
Humanities <sup>1</sup> . . . . .	26	31	33	37	34	42	51	66	67	110
Education . . . . .	50	49	71	59	65	85	95	86	106	115
Professional other . . . . .	12	16	27	17	24	35	33	24	37	56
Grand total, all fields . . . . .	295	344	365	363	397	559	627	730	1,076	1,432
U S citizens and permanent residents, female, black										
Science and engineering, total . . . . .	152	130	137	153	148	193	170	208	214	268
Engineering, total . . . . .	4	1	4	3	6	8	6	11	13	15
Chemical . . . . .	1	0	1	1	2	1	1	3	4	1
Civil . . . . .	1	0	0	0	0	2	0	2	2	3
Electrical . . . . .	0	0	2	0	1	2	2	2	3	4
Mechanical . . . . .	1	0	0	0	0	1	0	0	1	1
Other engineering . . . . .	1	1	1	2	3	2	3	4	3	6
Sciences, total . . . . .	148	129	133	150	142	185	164	197	201	253
Physical sciences, total . . . . .	4	3	8	7	7	5	6	10	13	18
Astronomy . . . . .	0	0	0	0	0	0	1	0	0	0
Chemistry . . . . .	3	2	7	7	7	5	5	9	9	17
Physics . . . . .	1	1	1	0	0	0	0	0	4	1
Other physical sciences . . . . .	0	0	0	0	0	0	0	1	0	0
Earth, atmospheric, and ocean sciences . . . . .	0	1	0	1	2	1	1	0	1	0
Mathematics . . . . .	3	2	0	3	1	4	0	1	3	1
Computer sciences . . . . .	0	1	0	1	0	4	1	4	2	4
Biological sciences . . . . .	22	25	23	24	21	31	24	32	43	41
Agricultural sciences . . . . .	3	3	5	1	1	1	4	4	6	6
Psychology . . . . .	68	59	58	61	72	86	78	75	78	112
Social sciences . . . . .	48	35	39	52	38	53	50	71	55	71
Non-S&E, total . . . . .	373	344	390	357	422	419	426	492	508	579
Health . . . . .	15	19	24	20	18	23	24	41	35	42
Humanities <sup>1</sup> . . . . .	35	39	36	36	35	48	43	42	55	61
Education . . . . .	290	255	277	270	327	292	326	355	358	412
Professional/other . . . . .	33	31	53	31	42	56	33	54	60	64
Grand total, all fields . . . . .	525	474	527	510	570	612	596	700	722	847

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens and permanent residents, female, Hispanic										
Science and engineering total	118	141	149	155	178	186	205	222	230	232
Engineering total	3	5	6	8	9	10	15	12	6	11
Chemical	2	3	0	4	1	4	4	3	0	2
Civil	0	0	1	0	2	2	1	2	3	1
Electrical	1	0	2	1	1	0	3	3	0	1
Mechanical	0	0	1	1	1	2	2	0	1	0
Other engineering	0	2	2	2	4	2	5	4	2	7
Sciences, total	115	136	143	147	169	176	190	210	224	221
Physical sciences total	9	17	16	18	26	11	20	20	21	21
Astronomy	1	0	0	0	0	0	1	0	0	2
Chemistry	6	15	13	17	24	9	16	18	16	14
Physics	2	2	3	1	2	2	3	2	5	5
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	1	4	3	4	2	6	2	2	6
Mathematics	3	2	0	4	4	4	3	2	3	4
Computer sciences	0	0	0	3	1	1	1	1	0	4
Biological sciences	27	24	27	21	33	39	43	57	62	47
Agricultural sciences	6	4	2	3	6	3	4	5	12	5
Psychology	43	63	55	63	57	70	78	86	90	97
Social sciences	26	25	39	32	38	46	35	37	34	37
Non-S&E total	188	185	159	163	210	223	222	234	282	287
Health	7	8	6	7	15	9	9	16	18	15
Humanities <sup>1</sup>	46	52	55	49	75	72	63	73	89	82
Education	128	115	92	98	105	124	132	128	159	164
Professional other	7	10	6	9	15	18	18	17	16	26
Grand total, all fields	306	326	308	318	388	409	427	456	512	519
U S citizens and permanent residents, female, Puerto Rican										
Science and engineering, total	25	33	38	39	48	47	49	42	59	63
Engineering, total	2	1	2	1	2	2	3	2	0	2
Chemical	2	0	0	0	0	1	0	0	0	1
Civil	0	0	1	0	0	0	0	1	0	0
Electrical	0	0	0	0	1	0	1	1	0	0
Mechanical	0	0	0	1	0	0	1	0	0	0
Other engineering	0	1	1	0	1	1	1	0	0	1
Sciences, total	23	32	36	38	46	45	46	40	59	61
Physical sciences, total	1	9	7	4	10	6	6	5	7	9
Astronomy	0	0	0	0	0	0	0	0	0	1
Chemistry	1	9	6	4	10	5	5	5	6	8
Physics	0	0	1	0	0	1	1	0	1	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	0	0	1	0	0	0	0	1
Mathematics	1	2	0	3	0	0	1	0	0	1
Computer sciences	0	0	0	0	0	0	0	1	0	0
Biological sciences	3	7	10	4	10	11	11	11	14	9
Agricultural sciences	1	3	0	2	1	0	0	3	3	0
Psychology	9	7	14	16	15	14	19	11	30	31
Social sciences	8	4	5	9	9	14	9	9	5	10
Non-S&E, total	36	52	42	51	58	60	70	69	75	86
Health	2	3	2	3	6	1	1	3	4	5
Humanities <sup>1</sup>	7	11	14	12	20	19	12	18	22	16
Education	25	33	29	35	30	36	53	45	45	50
Professional/other	2	5	3	1	2	4	4	3	4	15
Grand total, all fields	61	85	86	90	106	107	119	111	134	149

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens and permanent residents, female, Mexican American										
Science and engineering total	27	27	35	38	37	42	41	49	58	61
Engineering, total	0	1	0	5	2	2	0	2	2	1
Chemical	0	0	0	3	0	1	0	0	0	1
Civil	0	0	0	0	1	0	0	0	0	0
Electrical	0	0	0	1	0	0	0	0	0	0
Mechanical	0	0	0	0	1	1	0	0	0	0
Other engineering	0	1	0	1	0	0	0	2	2	0
Sciences, total	27	26	35	33	35	40	41	47	56	60
Physical sciences, total	3	1	1	2	3	3	2	3	4	4
Astronomy	0	0	0	0	0	0	0	0	0	1
Chemistry	2	0	1	2	3	2	2	2	3	2
Physics	1	1	0	0	0	1	0	1	1	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	2	0	1	0	2	0	0	1
Mathematics	1	0	0	0	2	2	0	1	0	2
Computer sciences	0	0	0	0	0	0	0	0	0	0
Biological sciences	6	4	2	3	7	7	13	11	13	11
Agricultural sciences	2	0	2	0	1	1	1	1	2	1
Psychology	9	16	19	21	14	15	18	26	23	33
Social sciences	6	5	9	7	7	12	5	5	13	6
Non-S&E total	61	45	42	37	35	58	53	71	89	69
Health	1	2	1	2	6	3	5	5	3	5
Humanities <sup>1</sup>	8	4	9	10	8	13	10	16	19	13
Education	49	37	30	24	19	39	32	44	64	50
Professional other	3	2	2	1	2	3	6	6	3	1
Grand total, all fields	88	72	77	75	72	100	94	120	147	130
U S citizens and permanent residents, female, other Hispanic										
Science and engineering total	66	81	76	78	93	97	115	131	113	108
Engineering, total	1	3	4	2	5	6	12	8	4	8
Chemical	0	3	0	1	1	2	4	3	0	0
Civil	0	0	0	0	0	1	1	3	1	1
Electrical	1	0	2	0	0	0	2	2	0	1
Mechanical	0	0	1	0	0	1	1	0	1	0
Other engineering	0	0	1	1	3	1	4	2	0	6
Sciences, total	65	78	72	76	88	91	103	123	109	100
Physical sciences, total	5	7	8	12	13	2	12	12	10	8
Astronomy	1	0	0	0	0	0	1	0	0	0
Chemistry	3	6	6	11	11	2	9	11	7	4
Physics	1	1	2	1	2	0	2	1	3	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	1	2	3	2	2	4	2	2	4
Mathematics	1	0	0	1	2	2	2	1	2	1
Computer sciences	0	0	0	3	1	1	1	0	0	2
Biological sciences	18	13	15	14	16	21	19	35	35	27
Agricultural sciences	3	1	0	1	4	2	3	1	7	4
Psychology	25	40	22	26	28	41	41	49	37	33
Social sciences	12	16	25	16	22	20	21	23	16	21
Non-S&E, total	91	88	69	75	117	105	99	94	118	132
Health	4	3	3	2	3	5	3	8	11	5
Humanities <sup>1</sup>	31	37	32	27	47	40	41	39	48	53
Education	54	45	33	39	56	49	47	39	50	64
Professional other	2	3	1	7	11	11	8	8	9	10
Grand total, all fields	157	169	145	153	210	202	214	225	231	240

See explanatory information if any, and SOURCE at end of table

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**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens and permanent residents female white										
Science and engineering total	3,818	3,830	4,028	4,288	4,522	4,739	4,703	5,012	5,159	5,209
Engineering, total	136	144	163	224	226	235	240	261	305	320
Chemical	31	43	45	52	48	45	59	51	48	60
Civil	13	9	12	34	29	16	19	25	46	34
Electrical	20	12	22	27	39	34	40	49	54	66
Mechanical	12	11	16	17	19	30	19	32	26	25
Other engineering	60	69	68	94	91	110	103	104	131	135
Sciences, total	3,682	3,686	3,665	4,064	4,296	4,504	4,463	4,751	4,854	4,889
Physical sciences, total	311	334	339	374	385	383	399	388	408	447
Astronomy	3	9	12	11	16	6	11	21	19	19
Chemistry	256	271	277	316	315	313	318	299	307	351
Physics	47	53	42	46	48	61	66	66	80	74
Other physical sciences	5	1	8	1	6	3	4	2	2	3
Earth, atmospheric, and ocean sciences	73	84	100	110	109	142	132	110	123	108
Mathematics	61	61	59	88	79	84	93	124	118	126
Computer sciences	40	45	40	67	80	73	69	83	75	104
Biological sciences	977	995	1,114	1,120	1,154	1,170	1,221	1,311	1,349	1,344
Agricultural sciences	110	109	110	149	146	123	129	115	120	104
Psychology	1,313	1,346	1,351	1,388	1,573	1,661	1,558	1,711	1,702	1,735
Social sciences	797	712	752	768	770	813	862	909	959	921
Non-S&E, total	4,694	4,682	4,637	4,854	5,196	5,292	5,631	5,684	5,870	5,914
Health	382	362	427	489	459	521	558	592	609	601
Humanities <sup>1</sup>	1,071	1,071	1,103	1,097	1,261	1,305	1,432	1,503	1,556	1,699
Education	2,755	2,718	2,645	2,723	2,871	2,886	3,042	2,965	3,068	2,956
Professional other	486	531	462	545	605	580	599	624	637	658
Grand total, all fields	8,512	8,512	8,665	9,142	9,718	10,031	10,334	10,696	11,029	11,123
U.S. citizens										
Science and engineering, total	13,022	12,966	13,369	13,467	14,166	14,624	14,558	14,929	15,162	15,460
Engineering, total	1,383	1,558	1,780	1,864	1,957	2,086	2,109	2,228	2,215	2,382
Chemical	241	294	358	382	342	348	318	324	293	291
Civil	139	162	187	188	180	173	164	168	203	206
Electrical	327	320	398	440	491	554	597	630	634	683
Mechanical	209	241	256	259	299	297	352	347	359	379
Other engineering	467	541	581	595	645	714	678	759	726	823
Sciences, total	11,639	11,408	11,589	11,603	12,209	12,538	12,449	12,701	12,947	13,078
Physical sciences, total	2,032	2,095	2,119	1,984	2,169	2,119	2,157	2,093	2,198	2,136
Astronomy	88	72	97	78	92	84	100	106	103	120
Chemistry	1,320	1,381	1,378	1,298	1,398	1,350	1,328	1,272	1,291	1,237
Physics	606	627	626	597	660	671	709	704	789	764
Other physical sciences	18	15	18	11	19	14	20	11	15	15
Earth, atmospheric and ocean sciences	404	410	493	518	516	592	506	463	507	478
Mathematics	366	345	342	393	375	463	454	496	504	554
Computer sciences	202	243	284	338	348	388	422	425	426	484
Biological sciences	3,124	2,981	3,131	3,117	3,190	3,310	3,327	3,448	3,418	3,489
Agricultural sciences	579	584	539	606	630	564	511	457	519	492
Psychology	2,767	2,747	2,668	2,683	2,919	2,953	2,900	3,069	3,053	3,068
Social sciences	2,165	2,003	2,013	1,964	2,062	2,149	2,172	2,250	2,322	2,377
Non-S&E, total	10,064	10,018	9,922	9,933	10,739	10,937	11,419	11,491	11,967	12,143
Health	568	606	657	729	721	779	809	879	961	938
Humanities <sup>1</sup>	2,528	2,509	2,609	2,530	2,899	2,975	3,211	3,274	3,485	3,745
Education	5,629	5,493	5,300	5,246	5,635	5,607	5,829	5,765	5,851	5,680
Professional other	1,339	1,410	1,356	1,428	1,484	1,576	1,579	1,573	1,670	1,780
Grand total, all fields	23,086	22,984	23,291	23,400	24,905	25,561	25,977	26,420	27,129	27,603

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens, American Indian, Alaskan Native										
Science and engineering total	52	53	44	53	43	56	69	43	64	69
Engineering, total	6	7	4	7	4	6	11	2	6	10
Chemical	0	1	2	1	0	1	1	1	1	2
Civil	0	1	1	1	2	1	1	0	0	0
Electrical	2	3	0	0	0	2	4	0	1	2
Mechanical	2	1	1	0	0	1	1	0	0	2
Other engineering	2	1	0	5	2	1	4	1	4	4
Sciences, total	46	46	40	46	39	50	58	41	58	59
Physical sciences total	5	7	6	10	3	10	12	5	6	9
Astronomy	0	0	0	2	0	0	0	1	0	0
Chemistry	5	6	5	5	3	9	6	2	4	7
Physics	0	1	1	3	0	1	6	2	2	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	2	0	2	6	1	3	1	4	1	0
Mathematics	1	0	2	0	1	0	2	1	2	2
Computer sciences	0	3	1	2	0	1	2	1	1	0
Biological sciences	17	11	6	7	4	10	13	7	16	15
Agricultural sciences	0	2	6	2	4	4	0	1	1	2
Psychology	9	16	7	11	19	13	15	15	12	14
Social sciences	12	7	10	3	7	9	13	7	19	17
Non-S&E, total	47	62	50	41	54	74	80	77	78	79
Health	6	3	5	3	1	5	5	6	6	9
Humanities	6	10	4	7	6	10	18	10	20	18
Education	26	41	36	25	37	55	50	51	36	40
Professional other	9	8	5	6	10	4	7	10	16	12
Grand total, all fields	99	115	94	94	97	130	149	120	142	148
U.S. citizens, Asian										
Science and engineering, total	403	447	454	494	488	599	651	712	736	895
Engineering, total	80	135	141	174	157	187	214	217	202	255
Chemical	17	24	32	40	26	27	25	26	27	27
Civil	8	14	8	15	8	11	12	10	7	15
Electrical	19	41	45	48	51	67	95	86	97	92
Mechanical	10	25	22	25	27	26	35	34	28	39
Other engineering	26	31	34	46	45	56	47	61	43	82
Sciences, total	323	312	313	320	331	412	437	495	534	640
Physical sciences, total	76	67	67	75	86	86	108	121	122	148
Astronomy	5	1	2	0	1	0	2	3	4	4
Chemistry	57	49	48	42	54	63	65	76	70	91
Physics	14	17	17	33	31	23	41	42	47	53
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, and ocean sciences	6	9	8	12	4	7	14	6	7	8
Mathematics	14	18	17	13	11	23	21	28	18	25
Computer sciences	12	10	20	18	10	32	37	27	33	42
Biological sciences	125	106	101	122	116	160	134	190	194	229
Agricultural sciences	12	17	9	7	11	9	13	9	14	10
Psychology	33	39	37	38	44	46	47	52	81	84
Social sciences	45	46	54	35	49	49	63	62	65	94
Non-S&E, total	130	96	160	139	153	190	195	177	213	243
Health	15	19	16	11	26	23	32	17	36	23
Humanities	26	22	36	41	30	43	46	53	59	85
Education	60	41	82	57	67	85	78	83	80	80
Professional other	29	14	26	30	30	39	39	24	38	55
Grand total, all fields	533	543	614	633	641	789	846	889	949	1,138

See explanatory information if any and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens black										
Science and engineering, total	275	245	275	297	291	363	322	375	387	468
Engineering, total	14	12	19	24	28	43	32	41	44	54
Chemical	1	4	4	2	5	4	8	4	6	2
Civil	2	1	0	2	0	8	0	3	8	7
Electrical	2	0	7	8	7	16	12	13	14	20
Mechanical	3	2	0	5	5	3	3	2	4	8
Other engineering	6	5	8	7	11	12	9	19	12	17
Sciences, total	261	233	256	273	263	320	290	334	343	414
Physical sciences, total	21	16	29	25	19	24	21	29	33	37
Astronomy	0	2	0	3	1	0	1	2	0	1
Chemistry	14	11	18	20	14	18	13	19	23	27
Physics	7	3	11	5	4	6	6	7	9	9
Other physical sciences	0	0	0	0	0	0	1	1	1	0
Earth, atmospheric, and ocean sciences	0	1	2	3	3	2	5	2	3	2
Mathematics	5	10	2	6	4	9	4	5	9	4
Computer sciences	0	2	1	1	1	5	4	5	7	9
Biological sciences	40	45	36	45	36	47	46	63	63	88
Agricultural sciences	7	7	8	6	9	6	6	5	10	9
Psychology	104	88	101	96	111	126	101	117	112	144
Social sciences	84	64	77	91	80	101	103	108	106	121
Non-S&E, total	555	526	543	524	609	641	646	733	708	819
Health	17	25	26	24	25	35	35	52	41	55
Humanities	58	65	67	63	69	84	84	82	94	96
Education	423	383	373	390	456	436	465	514	484	566
Professional other	57	53	77	47	59	86	62	85	89	102
Grand total, all fields	830	771	818	811	900	1,004	968	1,108	1,095	1,287
U S citizens Hispanic										
Science and engineering total	279	308	331	313	390	410	433	444	463	486
Engineering, total	25	24	43	33	39	48	57	56	49	61
Chemical	4	7	3	5	7	10	10	10	5	12
Civil	3	1	10	4	6	5	6	7	7	7
Electrical	7	4	10	10	9	11	14	16	16	14
Mechanical	3	4	5	3	3	8	10	3	7	5
Other engineering	8	8	15	11	14	14	17	20	14	23
Sciences, total	254	284	288	280	351	362	376	388	414	425
Physical sciences, total	36	48	58	52	63	54	58	65	75	61
Astronomy	1	0	2	1	2	1	4	1	2	3
Chemistry	24	40	44	40	50	39	34	43	49	38
Physics	10	8	12	12	11	14	20	21	24	20
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	4	3	7	6	11	12	13	8	7	7
Mathematics	9	9	3	8	7	6	10	9	12	12
Computer sciences	4	4	2	4	4	11	7	5	5	6
Biological sciences	52	52	61	58	73	79	90	93	111	104
Agricultural sciences	7	12	13	12	14	7	9	14	16	10
Psychology	82	92	89	87	100	113	122	120	128	137
Social sciences	60	64	55	53	79	80	67	74	60	88
Non-S&E, total	293	309	264	269	331	321	345	390	421	430
Health	12	11	11	10	17	12	12	19	20	29
Humanities	68	89	86	77	104	105	98	122	129	122
Education	190	185	151	158	179	175	200	213	226	232
Professional/other	23	24	16	24	31	29	35	36	46	47
Grand total, all fields	572	617	595	582	721	731	778	834	884	916

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens. Puerto Rican										
Science and engineering total	74	86	96	93	115	99	120	112	131	137
Engineering total	11	4	13	7	6	9	13	10	10	13
Chemical	2	1	0	1	2	2	3	2	2	4
Civil	1	0	6	1	1	1	1	1	1	1
Electrical	4	2	2	1	2	0	3	5	3	3
Mechanical	0	0	1	3	0	2	1	1	1	1
Other engineering	4	1	4	1	1	4	5	1	3	4
Sciences, total	63	82	83	86	109	90	107	102	121	124
Physical sciences, total	9	26	23	20	24	17	20	17	26	21
Astronomy	0	0	0	1	1	0	1	0	0	1
Chemistry	5	26	19	16	20	14	14	14	19	17
Physics	4	0	4	3	3	3	5	3	7	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	0	0	5	0	3	1	0	2
Mathematics	3	6	1	4	2	0	2	1	1	1
Computer sciences	2	1	0	0	2	3	1	1	4	0
Biological sciences	12	18	20	13	24	23	27	27	28	30
Agricultural sciences	4	6	2	7	5	0	3	10	5	3
Psychology	17	15	26	21	26	20	35	24	43	44
Social sciences	15	10	11	16	21	27	16	21	14	23
Non S&E total	64	93	78	83	95	92	109	120	126	132
Health	4	3	4	4	6	3	4	3	6	12
Humanities <sup>1</sup>	11	29	23	22	28	30	22	36	38	30
Education	45	52	44	52	56	52	76	70	68	69
Professional other	4	9	7	5	5	7	7	11	14	21
Grand total, all fields	138	179	174	176	210	191	229	232	257	269
U.S citizens Mexican American										
Science and engineering, total	76	75	83	82	96	117	110	103	134	138
Engineering total	5	6	8	12	14	10	10	14	14	14
Chemical	1	1	0	1	2	4	1	1	1	3
Civil	1	1	0	1	2	2	2	0	1	3
Electrical	1	0	1	2	4	3	3	2	4	3
Mechanical	2	1	1	0	2	3	2	0	2	1
Other engineering	0	3	6	6	2	2	2	7	6	4
Sciences, total	71	69	75	72	84	103	100	93	120	124
Physical sciences total	12	9	11	11	11	15	9	9	20	13
Astronomy	0	0	1	0	0	0	0	0	1	1
Chemistry	10	4	9	10	11	12	6	6	16	8
Physics	2	5	1	1	0	3	3	3	3	4
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	2	4	1	2	4	6	1	4	3
Mathematics	3	0	0	1	3	3	3	2	4	5
Computer sciences	0	1	0	0	0	0	2	0	0	3
Biological sciences	9	9	10	11	20	23	21	22	29	25
Agricultural sciences	2	3	1	3	6	1	4	2	5	3
Psychology	29	27	28	30	25	34	36	40	38	47
Social sciences	16	18	21	15	17	23	19	17	20	25
Non S&E, total	108	99	93	78	83	99	97	127	156	136
Health	3	3	3	4	7	3	5	7	3	8
Humanities <sup>1</sup>	19	17	20	21	17	23	22	34	39	33
Education	80	72	63	48	49	64	58	73	100	90
Professional other	6	7	7	5	10	9	12	13	14	5
Grand total, all fields	184	174	176	160	179	216	207	230	290	274

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens, other Hispanic										
Science and engineering total	129	147	152	138	179	194	203	229	198	211
Engineering, total	9	14	22	16	21	25	34	36	25	34
Chemical	1	5	3	3	3	4	6	7	2	5
Civil	1	0	4	2	3	2	3	6	5	3
Electrical	2	2	7	7	3	8	8	9	9	8
Mechanical	1	3	3	0	1	3	7	2	4	3
Other engineering	4	4	5	4	11	8	10	12	5	15
Sciences, total	120	133	130	122	158	169	169	193	173	177
Physical sciences total	15	13	24	21	28	22	29	39	29	27
Astronomy	1	0	1	0	1	1	3	1	1	1
Chemistry	9	10	16	14	19	13	14	23	14	13
Physics	4	3	7	7	8	8	12	15	14	13
Other physical sciences	1	0	1	0	0	0	0	0	0	0
Earth atmospheric and ocean sciences	3	1	3	5	4	8	4	6	3	2
Mathematics	3	3	2	3	2	3	5	6	7	6
Computer sciences	2	2	2	4	2	8	4	4	1	3
Biological sciences	31	25	31	29	29	33	42	44	54	49
Agricultural sciences	1	3	10	2	3	6	2	2	6	4
Psychology	36	50	35	36	49	59	51	56	47	46
Social sciences	29	36	23	22	41	30	32	36	26	40
Non-S&E, total	121	117	93	108	153	130	139	143	139	162
Health	5	5	4	2	4	6	3	9	11	9
Humanities	38	43	43	34	59	52	54	52	52	59
Education	65	61	44	58	74	59	66	70	58	73
Professional other	13	8	2	14	16	13	16	12	18	21
Grand total, all fields	250	264	245	246	332	324	342	372	337	373
U S citizens, white										
Science and engineering total	11 749	11 612	12 004	12 049	12 694	12 839	12 851	13 209	13 356	13 350
Engineering, total	1 229	1,331	1,531	1,583	1,690	1,707	1,750	1,892	1,886	1,952
Chemical	216	252	309	328	299	300	267	282	246	242
Civil	124	140	162	163	162	143	142	147	181	175
Electrical	293	256	324	360	413	430	457	507	503	538
Mechanical	181	203	225	218	261	244	300	303	316	315
Other engineering	415	480	511	514	555	590	584	653	640	682
Sciences total	10,520	10,281	10,473	10,466	11,004	11,132	11,101	11,317	11,470	11,398
Physical sciences total	1,834	1,902	1,900	1,777	1,939	1,896	1,917	1,848	1,944	1,844
Astronomy	78	68	90	73	86	81	91	97	94	109
Chemistry	1 183	1,243	1,236	1,167	1,249	1,201	1,192	1,119	1,139	1,063
Physics	557	577	556	526	586	601	616	623	698	659
Other physical sciences	16	14	18	11	18	13	18	9	13	13
Earth atmospheric and ocean sciences	382	381	462	434	488	546	469	440	486	452
Mathematics	326	295	308	351	346	403	407	445	455	507
Computer sciences	177	215	253	296	325	330	363	379	375	419
Biological sciences	2,840	2,697	2,878	2,832	2,909	2,965	2,998	3,056	3,005	3,021
Agricultural sciences	543	541	493	560	582	527	475	426	471	456
Psychology	2,510	2,476	2,404	2,423	2,599	2,616	2,580	2,749	2,695	2,666
Social sciences	1,908	1,774	1,775	1,743	1,816	1,849	1,892	1,974	2,039	2,033
Non S&E, total	8,891	8,856	8,783	8,845	9,478	9,580	10,034	10,028	10,449	10,461
Health	508	536	596	675	648	691	714	782	846	807
Humanities	2,325	2,269	2,375	2,288	2,649	2,685	2,927	2,969	3,149	3,373
Education	4,852	4,758	4,596	4,576	4,843	4,814	4,981	4,875	4,980	4,729
Professional-other	1,206	1,293	1,216	1,306	1,338	1,390	1,412	1,402	1,474	1,552
Grand total, all fields	20,640	20,468	20,787	20,894	22,172	22,419	22,885	23,237	23,805	23,811

See explanatory information if any and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens, male										
Science and engineering, total	8,860	8,801	9,014	8,820	9,274	9,387	9,396	9,426	9,460	9,586
Engineering, total	1,241	1,409	1,602	1,615	1,709	1,807	1,826	1,932	1,872	2,008
Chemical	205	250	312	222	288	297	250	265	236	221
Civil	129	153	174	151	151	152	144	138	155	170
Electrical	306	306	370	411	446	510	542	573	570	604
Mechanical	196	231	240	240	276	263	329	314	327	351
Other engineering	405	469	506	491	548	585	561	642	584	662
Sciences, total	7,619	7,392	7,412	7,205	7,565	7,580	7,570	7,494	7,588	7,578
Physical sciences, total	1,695	1,733	1,750	1,582	1,747	1,707	1,710	1,647	1,745	1,617
Astronomy	82	63	84	67	76	77	87	86	83	99
Chemistry	1,044	1,085	1,073	956	1,046	1,014	971	920	946	828
Physics	556	571	582	549	613	605	636	633	703	677
Other physical sciences	13	14	11	10	12	11	16	8	13	13
Earth, atmospheric, and ocean sciences	331	328	384	404	398	444	368	351	382	366
Mathematics	297	280	283	300	293	370	357	372	382	422
Computer sciences	165	193	245	266	268	305	353	343	349	368
Biological sciences	2,049	1,904	1,960	1,927	1,958	2,021	1,998	1,999	1,928	2,005
Agricultural sciences	463	468	420	450	483	436	377	333	387	380
Psychology	1,330	1,259	1,190	1,146	1,195	1,106	1,176	1,200	1,143	1,090
Social sciences	1,289	1,227	1,181	1,130	1,223	1,191	1,231	1,249	1,272	1,330
Non-S&E, total	4,778	4,773	4,711	4,575	4,892	4,992	5,105	5,071	5,270	5,323
Health	157	207	196	207	221	221	203	226	283	263
Humanities <sup>1</sup>	1,396	1,371	1,450	1,390	1,580	1,606	1,728	1,699	1,836	1,937
Education	2,420	2,359	2,235	2,132	2,273	2,250	2,246	2,265	2,199	2,107
Professional other	805	836	830	846	818	915	928	881	952	1,016
Grand total, all fields	13,638	13,574	13,725	13,395	14,166	14,379	14,501	14,497	14,730	14,909
U S citizens, male, American Indian, Alaskan Native										
Science and engineering, total	33	32	29	33	25	37	42	25	40	44
Engineering, total	5	7	4	5	4	4	8	2	4	10
Chemical	0	1	2	1	0	0	1	1	1	2
Civil	0	1	1	0	2	1	0	0	0	0
Electrical	2	3	1	0	0	1	3	0	1	2
Mechanical	2	1	0	0	0	1	1	0	0	2
Other engineering	1	1	0	4	2	1	3	1	2	4
Sciences, total	28	25	25	28	21	33	34	23	36	34
Physical sciences, total	3	5	5	10	3	8	10	3	5	6
Astronomy	0	0	0	2	0	0	0	1	0	0
Chemistry	3	4	5	5	3	7	4	1	4	4
Physics	0	1	0	3	0	1	6	1	1	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	1	4	0	2	1	4	1	0
Mathematics	0	0	2	0	1	0	1	1	2	1
Computer sciences	0	2	1	1	0	1	2	0	0	0
Biological sciences	11	7	4	4	3	6	8	5	11	1
Agricultural sciences	0	2	4	1	4	4	0	1	1	1
Psychology	4	4	3	3	6	5	6	6	5	6
Social sciences	9	5	5	5	4	7	6	3	11	9
Non-S&E, total	25	30	23	16	27	37	40	35	31	37
Health	0	1	1	0	1	3	3	0	1	2
Humanities <sup>1</sup>	5	6	0	2	4	3	12	7	12	10
Education	16	18	18	10	16	29	20	21	10	16
Professional other	4	5	4	4	6	2	5	7	8	9
Grand total, all fields	58	62	52	49	52	74	82	60	71	81

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens, male, Asian										
Science and engineering total	286	323	337	371	359	407	450	473	492	574
Engineering total	74	124	132	151	137	160	181	193	171	203
Chemical	15	21	29	31	19	20	18	22	20	16
Civil	8	13	8	13	7	10	11	10	7	13
Electrical	18	39	42	43	47	64	83	79	86	80
Mechanical	10	25	22	24	25	23	33	33	23	35
Other engineering	23	26	31	40	39	43	36	49	35	59
Sciences, total	212	199	205	220	222	247	269	286	321	371
Physical sciences, total	56	52	52	67	66	72	79	88	99	99
Astronomy	1	1	2	1	0	1	2	4	3	3
Chemistry	40	36	34	34	41	48	36	39	43	52
Physics	12	15	16	28	25	18	35	38	40	44
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, and ocean sciences	5	8	6	10	3	4	11	4	6	7
Mathematics	12	14	13	12	8	18	17	18	14	18
Computer sciences	12	6	19	14	9	25	34	23	29	34
Biological sciences	73	61	64	75	77	91	71	102	114	128
Agricultural sciences	10	14	5	4	9	6	8	5	12	5
Psychology	15	15	13	20	19	13	17	20	20	31
Social sciences	29	29	33	23	30	24	39	35	38	49
Non-S&E, total	63	46	77	75	68	76	80	72	99	96
Health	8	11	9	6	12	10	9	7	15	7
Humanities <sup>1</sup>	8	8	16	24	18	17	22	17	31	28
Education	26	18	34	23	19	26	21	32	28	27
Professional/other	21	9	18	22	19	23	28	16	25	34
Grand total, all fields	349	369	414	446	427	483	530	551	591	670
U S citizens, male, black										
Science and engineering, total	131	123	150	147	153	186	161	179	190	217
Engineering, total	10	11	15	21	23	35	26	30	31	41
Chemical	0	4	3	1	3	3	7	1	2	1
Civil	1	1	0	2	0	6	0	1	6	4
Electrical	2	0	5	8	6	14	10	11	11	16
Mechanical	2	2	0	5	5	2	3	2	3	8
Other engineering	5	4	7	5	9	10	6	15	9	12
Sciences, total	121	112	135	126	130	151	135	149	159	176
Physical sciences, total	17	13	22	18	13	20	16	20	21	20
Astronomy	0	2	0	0	1	0	0	2	0	1
Chemistry	11	9	12	13	8	14	9	11	15	11
Physics	6	2	10	5	4	6	6	7	5	8
Other physical sciences	0	0	0	0	0	0	1	0	1	0
Earth, atmospheric, and ocean sciences	0	0	2	2	1	1	4	2	2	2
Mathematics	2	8	2	4	3	5	4	4	6	3
Computer sciences	0	1	1	0	1	1	3	2	5	5
Biological sciences	21	23	18	22	16	22	24	33	22	51
Agricultural sciences	4	4	4	5	8	5	5	3	7	4
Psychology	37	30	46	35	42	42	25	43	40	36
Social sciences	40	33	40	40	46	55	54	42	56	55
Non-S&E, total	194	195	167	180	198	231	233	260	219	265
Health	3	7	3	4	7	13	11	15	11	14
Humanities <sup>1</sup>	24	28	35	29	35	37	42	44	42	42
Education	142	136	104	129	139	149	147	168	131	171
Professional/other	25	24	25	18	17	32	33	33	35	38
Grand total, all fields	325	318	317	327	351	417	394	439	409	482

See explanatory information, if any, and SOURCE at end of table.

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**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens, male, Hispanic										
Science and engineering total	177	182	202	180	237	241	263	256	262	282
Engineering total	22	21	37	27	33	38	46	45	44	51
Chemical	2	6	3	3	7	6	8	7	5	10
Civil	3	1	9	4	5	3	5	5	5	6
Electrical	6	4	8	9	8	11	12	13	16	13
Mechanical	3	4	4	2	2	6	8	3	6	5
Other engineering	8	6	13	9	11	12	13	17	12	17
Sciences, total	155	161	165	153	204	203	217	211	218	231
Physical sciences, total	28	33	45	37	41	44	43	49	58	42
Astronomy	0	0	2	1	2	1	3	1	2	1
Chemistry	18	27	33	25	30	31	23	29	36	24
Physics	9	6	10	11	9	12	17	19	20	17
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	3	3	3	4	7	11	9	6	5	4
Mathematics	6	7	3	4	4	3	7	8	9	9
Computer sciences	4	4	2	1	3	10	6	4	5	2
Biological sciences	29	33	39	43	45	44	55	47	61	68
Agricultural sciences	4	8	12	9	11	6	7	9	9	9
Psychology	43	31	36	27	47	47	52	42	42	43
Social sciences	38	42	25	28	46	38	38	46	29	54
Non-S&E, total	125	150	119	127	143	129	147	167	176	178
Health	5	3	6	3	2	4	4	4	3	15
Humanities <sup>1</sup>	34	51	38	41	44	49	51	55	67	59
Education	69	82	65	68	80	63	74	88	76	82
Professional/other	17	14	10	15	17	13	18	20	30	22
Grand total, all fields	302	332	321	307	380	370	410	423	438	460
U.S. citizens, male, Puerto Rican										
Science and engineering, total	49	53	58	54	67	52	71	70	72	74
Engineering, total	9	3	11	6	4	7	10	8	10	11
Chemical	0	1	0	1	2	1	3	2	2	3
Civil	1	0	5	1	1	1	1	0	1	1
Electrical	4	2	2	1	0	0	2	4	3	3
Mechanical	0	0	1	2	0	2	0	1	1	1
Other engineering	4	0	3	1	0	3	4	1	3	3
Sciences, total	40	50	47	48	63	45	61	62	62	63
Physical sciences, total	8	17	16	16	14	11	14	12	19	12
Astronomy	0	0	0	1	1	0	1	0	0	0
Chemistry	4	17	13	12	10	9	9	9	13	9
Physics	4	0	3	3	3	2	4	3	6	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	0	0	4	0	3	1	0	1
Mathematics	2	4	1	1	2	0	1	1	1	0
Computer sciences	2	1	0	0	2	3	1	0	4	0
Biological sciences	9	11	10	14	14	12	16	16	14	21
Agricultural sciences	3	3	2	5	4	0	3	2	2	3
Psychology	8	8	12	5	11	6	16	13	13	13
Social sciences	7	6	6	7	12	13	7	12	9	13
Non-S&E, total	28	41	30	32	37	32	39	51	51	46
Health	2	0	2	1	0	2	3	0	2	7
Humanities <sup>1</sup>	4	18	9	10	8	11	10	1	16	14
Education	20	19	15	17	26	16	23	2	23	19
Professional/other	2	4	4	4	3	3	3	8	10	6
Grand total, all fields	77	94	88	86	104	84	110	121	123	120

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens, male, Mexican American										
Science and engineering, total	50	48	51	48	61	76	72	61	80	79
Engineering, total	5	5	8	7	10	12	10	9	12	13
Chemical	1	1	0	0	2	3	1	1	1	2
Civil	1	1	0	1	1	2	2	0	1	3
Electrical	1	0	1	1	4	3	3	2	4	3
Mechanical	2	1	1	0	1	2	2	0	2	1
Other engineering	0	2	6	5	2	2	2	6	4	4
Sciences, total	45	43	43	41	51	64	62	52	68	66
Physical sciences total	9	8	10	9	8	12	7	7	17	9
Astronomy	0	0	1	0	0	0	0	0	1	0
Chemistry	8	4	8	8	8	10	4	5	14	6
Physics	1	4	1	1	0	2	3	2	2	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	2	2	1	1	4	4	1	4	2
Mathematics	2	0	0	1	1	1	3	2	3	3
Computer sciences	0	1	0	0	0	0	0	0	0	1
Biological sciences	3	5	9	8	13	16	10	12	16	16
Agricultural sciences	0	3	0	3	6	1	3	1	4	2
Psychology	20	11	9	10	11	19	19	16	17	14
Social sciences	11	13	13	9	11	11	14	13	17	19
Non-S&E, total	50	55	51	45	48	44	45	56	70	68
Health	2	1	2	2	1	0	0	2	0	3
Humanities <sup>1</sup>	13	13	11	12	9	11	13	18	22	21
Education	31	36	33	25	30	27	26	29	37	40
Professional/other	4	5	5	4	8	6	6	7	11	4
Grand total, all fields	100	103	102	91	109	120	117	117	150	147
U S citizens, male, other Hispanic										
Science and engineering, total	78	81	93	78	109	113	120	125	110	129
Engineering, total	8	13	18	14	19	19	26	28	22	27
Chemical	1	4	3	2	3	2	4	4	2	5
Civil	1	0	4	2	3	0	2	5	3	2
Electrical	1	2	5	7	3	8	7	7	9	7
Mechanical	1	3	2	0	1	2	6	2	3	3
Other engineering	4	4	4	3	9	7	7	10	5	10
Sciences, total	70	68	75	64	90	94	94	97	88	102
Physical sciences, total	11	8	19	12	19	21	22	30	22	21
Astronomy	0	0	1	0	1	1	2	1	1	1
Chemistry	6	6	12	5	12	12	10	15	9	9
Physics	4	2	6	7	6	8	10	14	12	11
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	2	1	1	3	2	7	2	4	1	1
Mathematics	2	3	2	2	1	2	3	5	5	6
Computer sciences	2	2	2	1	1	7	3	4	1	1
Biological sciences	17	17	20	21	18	16	29	19	31	31
Agricultural sciences	1	2	10	1	1	5	1	1	3	4
Psychology	15	12	15	12	25	22	17	13	12	16
Social sciences	20	23	6	12	23	14	17	21	13	22
Non-S&E, total	47	54	38	52	58	53	63	60	55	64
Health	1	2	2	0	1	2	1	2	1	5
Humanities <sup>1</sup>	17	20	18	19	27	27	28	19	29	24
Education	18	27	17	26	24	20	25	34	16	23
Professional/other	11	5	1	7	6	4	9	5	9	12
Grand total, all fields	125	135	131	130	167	166	183	185	165	193

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens, male, white										
Science and engineering, total	8,028	7,900	8,088	7,881	8,291	8,237	8,293	8,368	8,355	8,317
Engineering, total	1,104	1,199	1,376	1,371	1,474	1,486	1,523	1,644	1,595	1,656
Chemical	187	212	268	280	254	262	211	233	201	186
Civil	116	132	151	131	135	128	125	122	137	145
Electrical	274	244	304	337	374	397	419	462	453	479
Mechanical	169	193	210	201	242	217	281	272	291	291
Other engineering	358	418	443	422	469	482	487	555	513	555
Sciences, total	6,924	6,701	6,712	6,510	6,817	6,751	6,770	6,724	6,760	6,661
Physical sciences, total	1,540	1,580	1,570	1,412	1,571	1,524	1,535	1,473	1,557	1,419
Astronomy	75	59	78	62	70	75	81	78	75	91
Chemistry	942	982	964	857	942	896	885	828	843	731
Physics	512	526	517	483	547	543	555	560	628	586
Other physical sciences	11	13	11	10	12	10	14	7	11	11
Earth, atmospheric, and ocean sciences	312	301	363	377	379	409	339	332	366	346
Mathematics	266	238	253	268	272	324	319	334	344	388
Computer sciences	140	172	215	235	248	260	299	307	305	320
Biological sciences	1,880	1,727	1,799	1,745	1,776	1,825	1,802	1,782	1,700	1,722
Agricultural sciences	435	437	387	445	441	406	349	314	353	357
Psychology	1,216	1,159	1,078	1,049	1,059	980	1,059	1,079	1,022	965
Social sciences	1,135	1,087	1,048	1,009	1,071	1,023	1,063	1,103	1,113	1,144
Non-S&E, total	4,286	4,269	4,257	4,106	4,399	4,442	4,535	4,484	4,697	4,686
Health	133	180	177	191	198	186	171	198	250	222
Humanities <sup>1</sup>	1,297	1,246	1,333	1,257	1,451	1,466	1,574	1,546	1,661	1,762
Education	2,129	2,071	1,987	1,882	2,000	1,963	1,963	1,944	1,936	1,798
Professional/other	727	772	760	776	750	827	827	796	850	904
Grand total, all fields	12,314	12,169	12,345	11,987	12,690	12,679	12,828	12,852	13,052	13,003
U.S. citizens, female										
Science and engineering, total	4,162	4,165	4,355	4,647	4,892	5,237	5,162	5,503	5,702	5,874
Engineering, total	142	149	178	249	248	279	283	296	343	374
Chemical	36	44	46	53	54	51	68	59	57	70
Civil	10	9	13	31	29	21	20	30	48	36
Electrical	21	14	28	29	45	44	55	57	64	79
Mechanical	13	10	16	19	23	34	23	33	32	28
Other engineering	62	72	75	104	97	129	117	117	142	161
Sciences, total	4,020	4,016	4,177	4,398	4,644	4,958	4,879	5,207	5,359	5,500
Physical sciences, total	337	362	369	402	422	412	447	446	453	519
Astronomy	6	9	13	11	16	7	13	20	20	21
Chemistry	276	296	305	342	352	336	357	352	345	409
Physics	50	56	44	48	47	66	73	71	86	87
Other physical sciences	5	1	7	1	7	3	4	3	2	2
Earth, atmospheric, and ocean sciences	73	82	109	114	118	148	138	112	125	112
Mathematics	69	65	59	93	82	93	97	124	122	132
Computer sciences	37	50	39	72	80	83	69	82	77	116
Biological sciences	1,075	1,077	1,171	1,190	1,232	1,289	1,329	1,449	1,490	1,484
Agricultural sciences	116	116	119	156	147	128	134	124	132	112
Psychology	1,437	1,488	1,478	1,537	1,724	1,847	1,724	1,869	1,910	1,978
Social sciences	876	776	833	834	839	958	941	1,001	1,050	1,047
Non-S&E, total	5,286	5,245	5,211	5,358	5,847	5,945	6,314	6,420	6,697	6,820
Health	411	399	461	522	500	558	606	653	678	675
Humanities <sup>1</sup>	1,132	1,138	1,159	1,140	1,319	1,369	1,483	1,575	1,649	1,808
Education	3,209	3,134	3,065	3,114	3,362	3,357	3,574	3,500	3,652	3,573
Professional/other	534	574	526	582	666	661	651	692	718	764
Grand total, all fields	9,448	9,410	9,566	10,005	10,739	11,182	11,476	11,923	12,399	12,694

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens female American Indian/Alaskan Native										
Science and engineering, total	19	21	15	20	18	19	27	18	24	25
Engineering, total	1	0	0	2	0	2	3	0	2	0
Chemical	0	0	0	0	0	1	0	0	0	0
Civil	0	0	0	1	0	0	1	0	0	0
Electrical	0	0	0	0	0	1	1	0	0	0
Mechanical	0	0	0	0	0	0	0	0	0	0
Other engineering	1	0	0	1	0	0	1	0	2	0
Sciences, total	18	21	15	18	18	17	24	18	22	25
Physical sciences total	2	2	1	0	2	2	2	2	1	3
Astronomy	0	0	0	0	0	0	0	0	0	0
Chemistry	2	2	0	0	0	2	2	1	0	3
Physics	0	0	1	0	0	0	0	1	1	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	1	2	1	1	0	0	0	0
Mathematics	1	0	0	0	0	0	1	0	0	1
Computer sciences	0	1	0	1	0	0	0	1	1	0
Biological sciences	6	4	2	3	1	4	5	2	5	5
Agricultural sciences	0	0	2	1	0	0	0	0	0	0
Psychology	5	12	4	8	13	8	9	9	7	8
Social sciences	3	2	5	3	3	2	7	4	8	8
Non-S&E, total	22	32	27	25	27	37	40	42	47	42
Health	6	2	4	3	0	2	2	6	5	7
Humanities <sup>1</sup>	1	4	4	5	2	7	6	3	8	8
Education	10	23	18	15	21	26	30	30	26	24
Professional/other	5	3	1	2	4	2	2	3	8	3
Grand total, all fields	41	53	42	45	45	56	67	60	71	67
U S citizens, female, Asian										
Science and engineering, total	117	124	117	123	129	192	201	233	244	321
Engineering, total	6	11	9	23	20	27	33	24	31	52
Chemical	2	3	3	9	7	7	4	7	11	11
Civil	0	1	0	2	1	1	1	0	0	2
Electrical	1	2	3	5	4	3	12	7	11	12
Mechanical	0	0	0	1	2	3	2	1	5	4
Other engineering	3	5	3	6	6	13	11	12	8	23
Sciences, total	111	113	108	100	109	165	168	209	213	269
Physical sciences, total	20	15	15	13	19	20	36	42	34	49
Astronomy	1	0	0	0	0	0	1	1	0	1
Chemistry	17	13	14	8	13	15	29	37	27	39
Physics	2	2	1	5	6	5	6	4	7	9
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	1	2	2	1	3	3	2	1	1
Mathematics	2	4	4	1	3	5	4	10	4	7
Computer sciences	0	4	1	4	1	7	3	4	4	8
Biological sciences	52	45	37	47	39	69	63	88	80	101
Agricultural sciences	2	3	4	3	2	3	5	4	2	5
Psychology	18	24	24	18	25	33	30	32	61	53
Social sciences	16	17	21	12	19	25	24	27	27	45
Non-S&E, total	67	50	83	64	85	114	115	105	114	147
Health	7	8	7	5	14	13	23	10	21	16
Humanities <sup>1</sup>	18	14	20	17	12	26	24	36	28	57
Education	34	23	48	34	48	59	57	51	52	53
Professional/other	8	5	8	8	11	16	11	8	13	21
Grand total, all fields	184	174	200	187	214	306	316	338	358	468

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens, female, black										
Science and engineering total	144	122	125	150	138	177	161	196	197	251
Engineering, total	4	1	4	3	5	8	6	11	13	13
Chemical	1	0	1	1	2	1	1	3	4	1
Civil	1	0	0	0	0	2	0	2	2	3
Electrical	0	0	2	0	1	2	2	2	3	4
Mechanical	1	0	0	0	0	1	0	0	1	0
Other engineering	1	1	1	2	2	2	3	4	3	5
Sciences total	140	121	121	147	133	169	155	185	184	238
Physical sciences, total	4	3	7	7	6	4	5	9	12	17
Astronomy	0	0	0	0	0	0	1	0	0	0
Chemistry	3	2	6	7	6	4	4	8	8	16
Physics	1	1	1	0	0	0	0	0	4	1
Other physical sciences	0	0	0	0	0	0	0	1	0	0
Earth, atmospheric, and ocean sciences	0	1	0	1	2	1	1	0	1	0
Mathematics	3	2	0	2	1	4	0	1	3	1
Computer sciences	0	1	0	0	0	4	1	3	2	4
Biological sciences	19	22	18	23	20	25	22	30	41	37
Agricultural sciences	3	3	4	1	1	1	1	2	3	5
Psychology	67	58	55	61	69	84	76	74	72	108
Social sciences	44	31	37	51	34	46	49	66	50	66
Non-S&E total	361	331	376	344	411	410	413	473	489	554
Health	14	18	23	20	18	22	24	37	30	41
Humanities <sup>1</sup>	34	37	32	34	34	47	42	38	52	54
Education	281	247	269	261	317	287	318	346	353	395
Professional other	32	29	52	29	42	54	29	52	54	64
Grand total all fields	505	453	501	494	549	587	574	669	686	805
U.S. citizens, female, Hispanic										
Science and engineering, total	102	126	129	133	153	169	170	188	201	204
Engineering, total	3	3	6	6	6	10	11	11	5	10
Chemical	2	1	0	2	0	4	2	3	0	2
Civil	0	0	1	0	1	2	1	2	2	1
Electrical	1	0	2	1	1	0	2	3	0	1
Mechanical	0	0	1	1	1	2	2	0	1	0
Other engineering	0	2	2	2	3	2	4	3	2	6
Sciences, total	99	123	123	127	147	159	159	177	196	194
Physical sciences, total	8	15	13	15	22	10	15	16	17	19
Astronomy	1	0	0	0	0	0	1	0	0	2
Chemistry	6	13	11	15	20	8	11	14	13	14
Physics	1	2	2	0	2	2	3	2	4	3
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	4	2	4	1	4	2	2	3
Mathematics	3	2	0	4	3	3	3	1	3	3
Computer sciences	0	0	0	3	1	1	1	1	0	4
Biological sciences	23	19	22	15	28	35	35	46	50	36
Agricultural sciences	3	4	1	3	3	1	2	5	7	1
Psychology	39	61	53	60	53	66	70	78	86	94
Social sciences	22	22	30	25	33	42	29	28	31	34
Non-S&E, total	168	159	145	142	188	192	198	223	245	252
Health	7	8	5	7	15	8	8	15	17	14
Humanities <sup>1</sup>	34	38	48	36	60	56	37	67	62	63
Education	121	103	86	90	99	112	126	125	150	150
Professional other	6	10	6	9	14	16	17	16	16	25
Grand total all fields	270	285	274	275	341	361	368	411	446	456

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S citizens, female, Puerto Rican										
Science and engineering, total	25	33	38	39	48	47	49	42	59	63
Engineering, total	2	1	2	1	2	2	3	2	0	2
Chemical	2	0	0	0	0	1	0	0	0	1
Civil	0	0	1	0	0	0	0	1	0	0
Electrical	0	0	0	0	1	0	1	1	0	0
Mechanical	0	0	0	1	0	0	1	0	0	0
Other engineering	0	1	1	0	1	1	1	0	0	1
Sciences, total	23	32	36	38	46	45	46	40	59	61
Physical sciences, total	1	9	7	4	10	6	6	5	7	9
Astronomy	0	0	0	0	0	0	0	0	0	1
Chemistry	1	9	6	4	10	5	5	5	6	8
Physics	0	0	1	0	0	1	1	0	1	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	0	0	1	0	0	0	0	1
Mathematics	1	2	0	3	0	0	1	0	0	1
Computer sciences	0	0	0	0	0	0	0	1	0	0
Biological sciences	3	7	10	4	10	11	11	11	14	9
Agricultural sciences	1	3	0	2	1	0	0	3	3	0
Psychology	9	7	14	16	15	14	19	11	30	31
Social sciences	8	4	5	9	9	14	9	9	5	10
Non-S&E, total	36	52	48	1	58	60	70	69	75	86
Health	2	3	2	3	6	1	1	3	4	5
Humanities <sup>1</sup>	7	11	14	12	20	19	12	18	22	16
Education	25	33	29	35	30	36	53	45	45	50
Professional/other	2	5	3	1	2	4	4	3	4	15
Grand total, all fields	61	85	86	90	106	107	119	111	134	149
U S citizens, female, Mexican American										
Science and engineering, total	26	27	32	34	35	41	38	42	54	59
Engineering, total	0	1	0	3	2	2	0	1	2	1
Chemical	0	0	0	1	0	1	0	0	0	1
Civil	0	0	0	0	1	0	0	0	0	0
Electrical	0	0	0	1	0	0	0	0	0	0
Mechanical	0	0	0	0	1	1	0	0	0	0
Other engineering	0	1	0	1	0	0	0	1	2	0
Sciences, total	26	26	32	31	33	39	38	41	52	58
Physical sciences total	3	1	1	2	3	3	2	2	3	4
Astronomy	0	0	0	0	0	0	0	0	0	1
Chemistry	2	0	1	2	3	2	2	1	2	2
Physics	1	1	0	0	0	1	0	1	1	1
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	2	0	1	0	2	0	0	1
Mathematics	1	0	0	0	2	2	0	0	1	2
Computer sciences	0	0	0	0	0	0	0	0	0	2
Biological sciences	6	4	1	3	7	7	11	10	13	9
Agricultural sciences	2	0	1	0	0	0	1	1	1	1
Psychology	9	16	19	20	14	15	17	24	21	33
Social sciences	5	5	8	6	6	12	5	4	13	6
Non-S&E, total	58	44	42	35	35	55	52	71	86	68
Health	1	2	1	2	6	3	5	5	3	5
Humanities <sup>1</sup>	6	4	9	9	8	12	9	16	17	12
Education	49	36	30	23	19	37	32	44	63	50
Professional/other	2	2	2	1	2	3	6	6	3	1
Grand total, all fields	84	71	74	69	70	96	90	113	140	127

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U S. citizens, female other Hispanic										
Science and engineering, total	51	66	59	60	70	81	83	104	88	82
Engineering, total	1	1	4	2	2	6	8	8	3	7
Chemical	0	1	0	1	0	2	2	3	0	0
Civil	0	0	0	0	0	2	1	1	2	1
Electrical	1	0	2	0	0	0	1	2	0	1
Mechanical	0	0	1	0	0	1	1	0	1	0
Other engineering	0	0	1	1	2	1	3	2	0	5
Sciences, total	50	65	55	58	68	75	75	96	85	75
Physical sciences total	4	5	5	9	9	1	7	9	7	6
Astronomy	1	0	0	0	0	0	1	0	0	0
Chemistry	3	4	4	9	7	1	4	8	5	4
Physics	0	1	1	0	2	0	2	1	2	2
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	1	0	2	2	2	1	2	2	2	1
Mathematics	1	0	0	1	1	1	2	1	2	0
Computer sciences	0	0	0	3	1	1	1	0	0	2
Biological sciences	14	8	11	8	11	17	13	25	23	18
Agricultural sciences	0	1	0	1	2	1	1	1	3	0
Psychology	21	38	20	24	24	37	34	43	35	30
Social sciences	9	13	17	10	18	16	15	15	13	18
Non-S&E, total	74	63	55	56	95	77	76	83	84	98
Health	4	3	2	2	3	4	2	7	10	4
Humanities'	21	23	25	15	32	25	26	33	23	35
Education	47	34	27	32	50	39	41	36	42	50
Professional other	2	3	1	7	10	9	7	7	9	9
Grand total, all fields	125	129	114	116	165	158	159	187	172	180
U S. citizens, female, white										
Science and engineering, total	3,721	3,712	3,916	4,168	4,403	4,602	4,558	4,841	5,001	5,033
Engineering, total	125	132	155	212	216	221	227	248	291	296
Chemical	29	40	41	48	45	38	56	49	45	56
Civil	8	8	11	32	27	15	17	25	44	30
Electrical	19	12	20	23	39	33	38	45	50	59
Mechanical	12	10	15	17	19	27	19	31	25	24
Other engineering	57	62	68	92	86	108	97	98	127	127
Sciences, total	3,596	3,580	3,761	3,956	4,187	4,381	4,331	4,593	4,710	4,737
Physical sciences, total	294	322	330	365	368	372	382	375	387	425
Astronomy	3	9	12	11	16	6	10	19	19	18
Chemistry	241	261	272	310	307	305	307	291	296	332
Physics	45	51	39	43	39	58	61	63	70	73
Other physical sciences	5	1	7	1	6	3	4	2	2	2
Earth, atmospheric, and ocean sciences	70	80	99	107	109	137	130	108	120	106
Mathematics	60	57	55	53	74	79	88	111	111	119
Computer sciences	37	43	38	61	77	70	64	72	70	99
Biological sciences	960	970	1,080	1,087	1,133	1,140	1,196	1,274	1,305	1,299
Agricultural sciences	108	104	106	145	141	121	126	112	118	99
Psychology	1,294	1,317	1,326	1,374	1,540	1,636	1,521	1,670	1,673	1,701
Social sciences	773	687	727	734	745	826	824	871	926	889
Non-S&E, total	4,605	4,587	4,526	4,739	5,079	5,138	5,499	5,544	5,752	5,775
Health	375	356	419	484	450	505	543	584	596	585
Humanities'	1,028	1,023	1,042	1,031	1,198	1,219	1,353	1,423	1,488	1,611
Education	2,723	2,687	2,609	2,694	2,843	2,851	3,018	2,931	3,044	2,931
Professional other	479	521	456	530	588	563	585	606	624	648
Grand total, all fields	8,326	8,299	8,442	8,907	9,482	9,740	10,057	10,385	10,753	10,808

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U.S. citizens with permanent visas										
Science and engineering, total	994	1,089	1,130	1,124	1,197	1,285	1,382	1,641	3,022	3,501
Engineering, total	343	355	366	365	389	388	411	469	838	954
Chemical	57	56	50	62	50	51	60	53	87	90
Civil	53	41	46	59	61	40	51	59	89	103
Electrical	83	73	105	99	108	132	122	165	265	288
Mechanical	58	67	71	66	69	62	74	87	179	179
Other engineering	92	118	94	79	101	103	104	105	218	294
Sciences total	651	734	765	759	808	897	971	1,172	2,184	2,547
Physical sciences, total	134	147	158	172	180	199	237	591	704	
Astronomy	3	1	7	4	4	2	6	5	9	21
Chemistry	93	91	73	85	99	110	112	128	325	386
Physics	37	55	55	57	65	68	81	102	255	295
Other physical sciences	1	0	4	1	4	0	0	2	2	2
Earth, atmospheric, and ocean sciences	23	25	27	29	19	26	35	41	106	115
Mathematics	36	51	44	35	47	55	53	94	153	217
Computer sciences	47	32	42	58	55	63	67	84	117	133
Biological sciences	117	160	192	182	189	211	240	303	667	832
Agricultural sciences	47	48	71	45	57	56	62	49	97	106
Psychology	65	59	61	54	73	65	86	90	84	101
Social sciences	182	212	188	209	196	241	229	274	369	339
Non-S&E total	439	489	492	502	501	572	597	614	726	806
Health	35	40	35	27	35	60	46	60	89	107
Humanities	137	163	150	186	183	219	229	238	280	308
Education	173	172	177	164	153	174	165	175	199	215
Professional/other	94	114	150	130	119	157	141	158	158	176
Grand total, all fields	1,433	1,578	1,622	1,626	1,698	1,857	1,979	2,255	3,748	4,307
Non-U.S. citizens with permanent visas, American Indian/Alaskan Native										
Science and engineering, total	0	0	0	0	0	0	0	0	0	0
Engineering, total	0	0	0	0	0	0	0	0	0	0
Chemical	0	0	0	0	0	0	0	0	0	0
Civil	0	0	0	0	0	0	0	0	0	0
Electrical	0	0	0	0	0	0	0	0	0	0
Mechanical	0	0	0	0	0	0	0	0	0	0
Other engineering	0	0	0	0	0	0	0	0	0	0
Sciences, total	0	0	0	0	0	0	0	0	0	0
Physical sciences, total	0	0	0	0	0	0	0	0	0	0
Astronomy	0	0	0	0	0	0	0	0	0	0
Chemistry	0	0	0	0	0	0	0	0	0	0
Physics	0	0	0	0	0	0	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	0	0	0	0	0	0	0	0
Mathematics	0	0	0	0	0	0	0	0	0	0
Computer sciences	0	0	0	0	0	0	0	0	0	0
Biological sciences	0	0	0	0	0	0	0	0	0	0
Agricultural sciences	0	0	0	0	0	0	0	0	0	0
Psychology	0	0	0	0	0	0	0	0	0	0
Social sciences	0	0	0	0	0	0	0	0	0	0
Non-S&E, total	0	0	0	0	0	2	0	0	0	0
Health	0	0	0	0	0	0	0	0	0	0
Humanities	0	0	0	0	0	0	0	0	0	0
Education	0	0	0	0	0	1	0	0	0	0
Professional/other	0	0	0	0	0	1	0	0	0	0
Grand total, all fields	0	0	0	0	0	2	0	0	0	0

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non U.S. citizens with permanent visas. Asian										
Science and engineering total	413	478	462	492	521	581	693	898	2,253	2,771
Engineering total	182	192	191	187	202	218	237	310	665	776
Chemical	41	36	35	37	25	23	29	36	69	74
Civil	18	20	19	21	20	19	22	31	62	76
Electrical	52	37	58	45	64	73	80	113	207	230
Mechanical	21	36	35	41	42	36	43	59	151	150
Other engineering	50	63	44	43	51	67	63	71	176	246
Sciences. total	231	286	271	305	319	363	456	588	1,588	1,995
Physical sciences total	71	76	71	81	78	86	118	144	478	603
Astronomy	1	0	3	2	4	0	2	1	6	18
Chemistry	53	59	37	54	45	59	69	81	262	325
Physics	17	17	30	24	27	27	47	61	208	259
Other physical sciences	0	0	1	1	2	0	0	1	2	1
Earth, atmospheric, and ocean sciences	8	9	6	11	11	10	13	16	82	96
Mathematics	14	23	16	11	16	34	31	51	124	183
Computer sciences	25	16	2	34	38	34	49	50	84	96
Biological sciences	43	64	7	3	84	101	135	180	526	695
Agricultural sciences	10	21	21	16	21	15	24	20	58	68
Psychology	9	9	10	17	9	13	12	21	28	37
Social sciences	51	68	53	56	62	70	74	106	208	217
Non S&E. total	115	147	159	143	144	161	222	225	343	391
Health	15	16	14	11	13	21	20	28	58	71
Humanities <sup>1</sup>	16	31	28	38	32	38	53	55	92	108
Education	35	54	48	45	37	45	64	58	92	94
Professional other	49	46	69	49	62	57	85	84	101	118
Grand total, all fields	528	625	621	635	665	742	915	1,123	2,596	3,162
Non U.S. citizens with permanent visas. black										
Science and engineering, total	64	74	86	69	82	96	85	93	109	89
Engineering, total	10	13	1	5	12	12	17	9	10	17
Chemical	3	0	5	3	5	4	5	2	2	1
Civil	2	3	1	3	1	4	3	2	0	4
Electrical	2	3	0	1	1	0	5	2	3	4
Mechanical	0	1	1	0	0	0	2	1	3	6
Other engineering	3	6	7	2	5	4	2	2	2	2
Sciences, total	54	61	74	60	70	84	68	84	99	72
Physical sciences, total	6	4	5	6	11	7	4	12	13	6
Astronomy	0	0	0	0	0	0	0	0	0	0
Chemistry	4	2	4	6	10	4	4	12	11	6
Physics	1	2	1	0	1	3	0	0	2	0
Other physical sciences	1	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	1	1	1	0	1	1	2	3	1
Mathematics	1	1	2	2	0	2	0	3	2	1
Computer sciences	1	0	1	0	0	3	1	1	3	2
Biological sciences	8	15	12	11	14	13	15	11	12	17
Agricultural sciences	9	6	12	8	6	11	8	11	12	8
Psychology	7	5	4	1	4	4	5	2	12	6
Social sciences	22	29	37	31	35	43	34	42	42	31
Non-S&E. total	62	65	66	72	67	60	60	76	70	79
Health	4	6	6	5	7	5	3	7	5	5
Humanities <sup>1</sup>	9	8	9	8	3	8	6	16	13	18
Education	41	34	44	42	40	35	34	41	35	44
Professional/other	8	17	7	17	17	12	17	12	17	12
Grand total, all fields	126	139	152	141	149	156	145	169	179	168

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U S citizens with permanent visas. Hispanic										
Science and engineering, total	66	49	66	69	78	82	80	98	85	82
Engineering, total	10	10	20	14	15	12	14	10	17	16
Chemical	0	4	2	4	1	1	6	0	2	1
Civil	4	0	3	4	3	0	1	5	7	4
Electrical	2	2	4	4	4	4	3	1	5	1
Mechanical	3	1	2	0	2	1	1	2	1	3
Other engineering	1	3	9	2	5	6	3	2	2	7
Sciences total	56	39	46	55	63	70	66	88	68	66
Physical sciences, total	5	8	5	7	9	11	14	14	15	12
Astronomy	1	0	0	1	0	0	0	1	0	1
Chemistry	1	4	4	3	7	7	8	8	10	5
Physics	3	4	1	3	2	4	6	5	5	6
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	2	0	3	2	4	3	5	1	5
Mathematics	3	2	1	3	3	3	2	7	1	3
Computer sciences	3	0	0	0	1	1	1	2	2	0
Biological sciences	14	10	15	13	16	16	12	21	20	22
Agricultural sciences	10	3	8	6	9	8	9	6	9	11
Psychology	8	3	4	6	9	9	11	11	5	8
Social sciences	13	11	13	17	14	18	14	22	15	5
Non-S&E total	41	42	32	43	38	54	51	41	60	57
Health	0	0	2	1	0	4	1	5	5	1
Humanities	23	25	16	23	23	31	31	23	38	31
Education	14	16	7	13	11	14	14	9	15	23
Professional other	4	1	7	6	4	5	5	4	2	2
Grand total, all fields	107	91	98	112	116	136	131	139	145	139
Non-U S citizens with permanent visas, white										
Science and engineering, total	402	440	452	452	476	484	475	526	534	529
Engineering, total	125	127	124	143	150	130	130	133	134	134
Chemical	11	14	8	17	19	22	17	13	13	14
Civil	28	18	21	28	34	16	24	21	18	19
Electrical	26	27	39	45	37	48	30	46	45	50
Mechanical	29	27	28	23	25	22	26	25	21	19
Other engineering	31	41	28	30	35	22	33	28	37	32
Sciences, total	277	313	328	309	326	354	345	393	400	395
Physical sciences, total	41	54	48	51	69	72	56	63	81	77
Astronomy	1	1	3	1	0	2	4	3	3	2
Chemistry	26	24	22	21	35	38	27	26	40	47
Physics	14	29	21	29	32	32	25	33	38	27
Other physical sciences	0	0	2	0	2	0	0	1	0	1
Earth, atmospheric, and ocean sciences	15	13	18	14	6	11	16	15	18	12
Mathematics	17	24	24	18	26	16	18	31	24	28
Computer sciences	17	14	12	23	14	25	15	31	26	34
Biological sciences	48	62	88	72	66	76	70	90	103	95
Agricultural sciences	14	13	25	10	19	18	18	12	16	17
Psychology	38	40	41	30	49	36	56	56	36	49
Social sciences	87	93	72	91	77	100	96	95	96	83
Non-S&E, total	194	214	222	224	231	276	239	264	246	268
Health	16	17	10	9	14	29	21	18	21	28
Humanities	76	94	96	111	117	136	134	140	133	147
Education	71	62	72	58	58	69	44	67	55	50
Professional/other	31	41	44	46	42	42	40	39	37	43
Grand total, all fields	596	654	674	676	707	760	714	790	780	797

See explanatory information, if any, and SOURCE at end of table.

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U.S. citizens with permanent visas, male										
Science and engineering, total	789	830	874	850	908	926	967	1,120	2,231	2,483
Engineering, total	323	330	348	339	361	351	366	417	733	810
Chemical	51	48	43	53	42	42	46	48	66	72
Civil	48	39	44	56	56	36	48	57	82	87
Electrical	79	72	100	92	106	128	110	142	241	247
Mechanical	58	66	70	66	68	59	72	84	157	159
Other engineering	87	105	91	72	89	86	90	86	187	245
Sciences, total	466	500	526	511	547	575	601	703	1,498	1,673
Physical sciences, total	95	110	98	112	124	138	132	162	419	515
Astronomy	2	1	6	2	2	2	4	2	8	17
Chemistry	60	60	50	62	68	78	68	79	206	258
Physics	32	49	39	47	50	58	60	79	204	239
Other physical sciences	1	0	3	—	4	0	0	2	1	1
Earth, atmospheric, and ocean sciences	20	18	24	23	19	17	26	33	87	83
Mathematics	32	39	33	27	36	36	33	54	124	166
Computer sciences	41	28	35	46	45	52	53	57	100	106
Biological sciences	76	93	111	96	110	111	131	168	416	462
Agricultural sciences	40	38	62	37	45	47	46	39	69	83
Psychology	32	18	27	28	25	22	30	21	26	35
Social sciences	130	156	136	142	143	152	150	169	257	223
Non-S&E, total	279	287	290	289	282	298	325	347	407	423
Health	22	24	20	18	18	31	23	34	45	62
Humanities	70	80	65	83	80	97	104	116	141	138
Education	106	94	102	89	86	92	84	94	107	94
Professional other	81	89	103	99	98	78	114	103	114	129
Grand total, all fields	1,068	1,117	1,164	1,139	1,190	1,224	1,292	1,467	2,638	2,906
Non-U.S. citizens with permanent visas, female										
Science and engineering, total	205	259	256	274	289	359	415	521	791	1,018
Engineering, total	20	25	18	26	28	37	45	52	105	144
Chemical	6	8	7	9	8	9	14	5	21	18
Civil	5	2	2	3	5	4	3	2	7	16
Electrical	4	1	5	7	2	4	12	23	24	41
Mechanical	0	1	1	0	1	3	2	3	22	20
Other engineering	5	13	3	7	12	17	14	19	31	49
Sciences, total	185	234	238	248	261	322	370	469	686	874
Physical sciences, total	39	37	41	35	48	42	67	75	172	189
Astronomy	1	0	1	2	2	0	2	3	1	4
Chemistry	33	31	23	23	31	32	44	49	119	128
Physics	5	6	16	10	15	10	21	23	51	56
Other physical sciences	0	0	1	0	0	0	0	0	1	1
Earth, atmospheric, and ocean sciences	3	7	3	6	0	9	9	8	19	32
Mathematics	4	12	11	8	11	19	20	40	29	51
Computer sciences	6	4	7	12	10	11	14	27	17	27
Biological sciences	41	67	81	86	79	100	109	135	251	370
Agricultural sciences	7	10	9	8	12	9	16	10	28	23
Psychology	33	41	34	26	48	43	56	69	58	66
Social sciences	52	56	52	67	53	89	79	105	112	116
Non-S&E, total	160	202	202	213	219	274	272	267	319	383
Health	13	16	15	9	17	29	23	26	44	45
Humanities	67	83	85	103	103	122	125	122	139	170
Education	67	78	75	75	67	82	81	81	92	121
Professional other	13	25	27	26	32	41	43	38	44	47
Grand total, all fields	365	461	458	487	508	633	687	788	1,110	1,401

See explanatory information if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U.S. citizens with temporary visas										
Science and engineering, total	4,160	4,468	4,936	5,391	6,571	7,642	8,092	8,113	7,521	6,992
Engineering, total	1,372	1,532	1,721	1,940	2,277	2,634	2,743	2,784	2,653	2,523
Chemical	199	216	236	236	250	281	339	336	336	318
Civil	199	233	266	262	284	353	357	380	385	337
Electrical	320	310	419	498	602	690	725	703	735	712
Mechanical	231	303	333	358	465	493	538	554	459	437
Other engineering	423	470	467	586	676	817	784	811	738	719
Sciences, total	2,788	2,936	3,215	3,451	4,294	5,008	5,349	5,329	4,868	4,469
Physical sciences, total	767	801	870	890	1,073	1,257	1,346	1,263	1,107	930
Astronomy	17	23	20	26	30	37	28	34	32	28
Chemistry	393	399	442	461	530	689	729	675	597	493
Physics	348	376	403	401	507	525	581	550	471	399
Other physical sciences	9	3	5	2	6	6	8	4	7	10
Earth, atmospheric, and ocean sciences	97	122	132	122	171	185	236	235	197	172
Mathematics	272	302	305	346	424	506	511	517	448	382
Computer sciences	123	143	176	178	271	340	365	348	343	365
Biological sciences	391	492	557	608	853	1,059	1,159	1,246	1,058	971
Agricultural sciences	320	289	345	355	440	435	472	447	453	429
Psychology	81	85	84	105	117	133	156	148	151	162
Social sciences	737	702	746	846	945	1,093	1,104	1,125	1,111	1,058
Non-S&E, total	1,116	1,144	1,259	1,257	1,522	1,670	1,861	1,821	1,885	1,814
Health	99	96	118	134	166	171	226	214	230	245
Humanities	249	252	290	283	354	444	495	469	532	549
Education	471	421	481	452	501	503	553	546	537	501
Professional/other	297	375	370	388	501	552	587	592	586	519
Grand total, all fields	5,276	5,612	6,195	6,648	8,093	9,312	9,953	9,934	9,406	8,806
Non-U.S. citizens with temporary visas, American Indian/Alaskan Native										
Science and engineering, total	1	1	0	0	0	0	1	1	2	0
Engineering, total	0	1	0	0	0	0	0	0	1	0
Chemical	0	0	0	0	0	0	0	0	0	0
Civil	0	0	0	0	0	0	0	0	0	0
Electrical	0	1	0	0	0	0	0	0	0	0
Mechanical	0	0	0	0	0	0	0	0	0	0
Other engineering	0	0	0	0	0	0	0	0	1	0
Sciences, total	1	0	0	0	0	0	1	1	1	0
Physical sciences, total	0	0	0	0	0	0	0	0	0	0
Astronomy	0	0	0	0	0	0	0	0	0	0
Chemistry	0	0	0	0	0	0	0	0	0	0
Physics	0	0	0	0	0	0	0	0	0	0
Other physical sciences	0	0	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences	0	0	0	0	0	0	0	0	0	0
Mathematics	0	0	0	0	0	0	0	0	1	0
Computer sciences	0	0	0	0	0	0	0	0	0	0
Biological sciences	1	0	0	0	0	0	1	0	0	0
Agricultural sciences	0	0	0	0	0	0	0	1	0	0
Psychology	0	0	0	0	0	0	0	0	0	0
Social sciences	0	0	0	0	0	0	0	0	0	0
Non-S&E, total	0	0	0	0	1	0	1	0	1	0
Health	0	0	0	0	0	0	0	0	0	0
Humanities <sup>1</sup>	0	0	0	0	0	0	1	0	1	0
Education	0	0	0	0	0	1	0	0	0	0
Professional/other	0	0	0	0	0	0	0	0	0	0
Grand total, all fields	1	1	0	0	1	0	2	1	3	0

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U.S. citizens with temporary visas. Asian										
Science and engineering, total	2,202	2,459	2,897	3,254	4,160	5,018	5,495	5,579	4,788	4,419
Engineering, total	838	958	1,124	1,264	1,497	1,849	1,992	2,058	1,839	1,798
Chemical	133	155	167	148	165	210	243	248	222	236
Civil	106	118	147	137	163	199	202	241	225	217
Electrical	180	187	279	327	396	501	516	516	518	500
Mechanical	139	202	244	242	341	383	425	437	359	339
Other engineering	280	296	287	410	432	556	606	616	515	506
Sciences, total	1,364	1,501	1,773	1,990	2,663	3,169	3,503	3,521	2,949	2,621
Physical sciences, total	484	506	595	642	792	910	998	934	773	597
Astronomy	4	13	6	13	15	19	17	19	15	14
Chemistry	262	267	329	362	418	538	569	533	452	360
Physics	210	225	257	266	353	351	409	380	303	220
Other physical sciences	8	1	3	1	6	2	3	2	3	3
Earth, atmospheric, and ocean sciences	42	57	67	56	95	96	141	142	92	88
Mathematics	125	131	150	187	254	321	330	320	243	170
Computer sciences	68	86	114	120	192	239	253	254	244	235
Biological sciences	196	260	323	352	558	707	838	907	676	630
Agricultural sciences	122	118	131	149	209	224	249	228	212	208
Psychology	20	15	27	35	48	47	62	71	70	91
Social sciences	307	328	366	449	515	625	632	665	639	602
Non-S&E, total	443	476	621	653	771	931	1,010	1,027	1,011	956
Health	43	37	53	72	76	94	125	136	130	142
Humanities <sup>1</sup>	74	62	101	94	104	162	170	182	174	180
Education	161	178	229	231	255	293	318	310	312	281
Professional other	165	199	238	256	336	382	397	399	395	353
Grand total, all fields	2,645	2,935	3,518	3,907	4,931	5,949	6,505	6,606	5,799	5,375
Non-U.S. citizens with temporary visas. black										
Science and engineering, total	197	183	191	171	195	189	195	210	268	212
Engineering, total	25	31	36	23	35	25	24	31	34	31
Chemical	1	3	4	3	4	3	1	6	8	2
Civil	9	15	5	5	10	7	5	10	9	4
Electrical	4	4	4	6	8	4	5	3	6	10
Mechanical	6	2	4	3	3	2	6	4	2	9
Other engineering	5	7	19	6	10	9	7	8	9	6
Sciences, total	172	152	155	148	160	164	171	179	234	181
Physical sciences, total	19	17	17	13	6	28	23	15	25	25
Astronomy	0	0	0	0	0	1	0	0	0	0
Chemistry	17	14	12	12	4	21	20	13	18	17
Physics	2	3	5	1	2	6	3	2	6	8
Other physical sciences	0	0	0	0	0	0	0	0	1	0
Earth, atmospheric, and ocean sciences	3	1	4	3	3	2	9	3	4	6
Mathematics	6	7	4	5	9	4	8	9	11	6
Computer sciences	3	1	2	3	1	5	1	3	1	3
Biological sciences	32	19	32	24	26	27	24	28	43	24
Agricultural sciences	33	26	31	33	39	32	43	42	68	49
Psychology	3	4	6	4	6	6	3	6	6	4
Social sciences	73	77	59	63	70	60	60	73	76	64
Non-S&E, total	116	122	100	102	96	104	116	112	120	123
Health	13	7	9	12	4	15	17	13	12	18
Humanities <sup>1</sup>	16	32	14	9	12	17	26	31	24	27
Education	72	55	60	56	56	52	48	51	59	51
Professional other	15	28	17	25	24	20	25	17	25	27
Grand total, all fields	313	305	291	273	291	293	311	322	388	335

See explanatory information, if any, and SOURCE at end of table

**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U.S. citizens with temporary visas Hispanic										
Science and engineering, total	290	289	292	311	301	359	367	381	386	349
Engineering, total	60	63	61	70	74	68	66	78	93	72
Chemical	10	8	15	12	9	10	14	16	19	8
Civil	13	15	18	11	15	13	14	13	17	12
Electrical	6	6	6	10	10	18	15	15	14	20
Mechanical	9	8	6	10	14	5	6	11	10	7
Other engineering	22	26	16	27	26	22	17	23	33	25
Sciences total	230	226	231	241	227	291	301	283	293	277
Physical sciences total	48	40	34	28	33	37	42	33	27	21
Astronomy	3	1	1	1	3	2	1	3	2	2
Chemistry	22	20	17	15	17	20	21	15	19	9
Physics	23	18	16	12	13	15	19	15	6	9
Other physical sciences	0	1	0	0	0	0	1	0	0	1
Earth atmospheric and ocean sciences	2	16	12	14	8	10	14	21	22	18
Mathematics	26	23	24	19	20	33	27	25	24	23
Computer sciences	5	6	5	6	9	13	7	6	9	8
Biological sciences	36	53	45	56	50	62	68	59	69	78
Agricultural sciences	42	44	64	55	54	58	47	62	60	58
Psychology	11	9	5	9	8	13	10	8	9	9
Social sciences	60	35	42	54	45	65	86	69	73	62
Non-S&E total	82	49	57	52	85	87	115	93	117	122
Health	8	7	3	4	9	7	12	11	10	10
Humanities	20	20	26	18	43	47	51	43	65	76
Education	43	10	21	22	18	23	34	19	30	22
Professional other	11	12	7	8	15	10	18	20	12	14
Grand total all fields	372	338	349	363	386	446	482	454	503	471
Non-U.S. citizens with temporary visas, white										
Science and engineering total	1,144	1,176	1,273	1,380	1,502	1,642	1,696	1,761	1,850	1,801
Engineering total	348	375	411	491	549	531	556	559	599	547
Chemical	34	41	35	57	58	48	68	62	74	62
Civil	57	71	88	96	82	113	121	107	121	90
Electrical	109	90	109	133	154	139	153	149	175	157
Mechanical	62	70	69	88	90	67	85	91	75	77
Other engineering	86	103	110	117	165	164	129	150	154	161
Sciences total	796	801	862	889	953	1,111	1,140	1,202	1,251	1,254
Physical sciences total	171	187	184	172	174	235	239	251	260	255
Astronomy	9	7	10	11	11	13	10	12	15	12
Chemistry	68	77	74	57	62	87	94	100	101	89
Physics	93	102	99	103	101	132	132	137	141	148
Other physical sciences	1	1	1	1	0	3	3	2	3	6
Earth, atmospheric and ocean sciences	41	39	40	43	54	61	57	61	71	59
Mathematics	101	102	107	121	119	112	129	150	156	172
Computer sciences	39	40	44	42	59	78	88	76	84	107
Biological sciences	96	122	129	150	174	216	193	217	235	208
Agricultural sciences	90	69	91	83	92	86	104	101	97	97
Psychology	42	51	37	56	53	60	73	59	62	56
Social sciences	214	191	230	222	228	263	257	287	286	300
Non-S&E total	363	389	409	374	446	459	539	533	571	555
Health	29	37	43	38	62	49	53	51	56	67
Humanities	115	121	137	150	162	192	230	195	249	250
Education	135	129	140	107	130	113	124	142	122	133
Professional other	84	102	89	79	92	105	132	145	144	144
Grand total all fields	1,507	1,565	1,682	1,754	1,948	2,101	2,235	2,294	2,421	2,356

See explanatory information if any and SOURCE at end of table

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**Table 3. Science and engineering (S&E) doctorates awarded, by citizenship status, sex, racial/ethnic group, and major field of study of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U S. citizens with temporary visas, male										
Science and engineering, total	3,619	3,904	4,254	4,609	5,590	6,413	6,741	6,658	6,201	5,745
Engineering, total	1,323	1,478	1,651	1,850	2,157	2,485	2,574	2,623	2,475	2,364
Chemical	185	208	226	225	234	259	308	309	301	297
Civil	195	227	252	250	271	337	330	358	360	314
Electrical	308	299	408	469	573	659	679	660	679	668
Mechanical	228	298	324	349	452	473	518	535	445	424
Other engineering	407	445	441	557	627	757	739	761	690	661
Sciences, total	2,296	2,426	2,603	2,759	3,433	3,928	4,167	4,035	3,726	3,381
Physical sciences, total	653	706	743	743	895	1,041	1,098	1,015	908	770
Astronomy	15	19	18	22	28	30	24	32	28	24
Chemistry	321	340	366	355	421	547	556	503	440	378
Physics	308	344	354	365	441	460	510	477	433	360
Other physical sciences	9	3	5	1	5	4	8	3	7	8
Earth, atmospheric, and ocean sciences	84	109	119	109	153	165	198	202	158	150
Mathematics	234	260	262	299	363	420	427	422	364	304
Computer sciences	119	138	168	160	256	317	329	322	302	322
Biological sciences	280	333	385	400	582	694	787	809	704	635
Agricultural sciences	278	248	295	300	359	366	391	357	366	340
Psychology	47	48	48	60	62	77	81	64	71	78
Social sciences	601	584	583	688	763	848	856	844	853	782
Non-S&E, total	795	818	880	835	1,042	1,105	1,222	1,207	1,129	1,108
Health	73	61	75	87	101	101	159	138	115	142
Humanities <sup>1</sup>	149	169	180	171	211	255	280	278	297	310
Education	320	270	308	264	306	288	299	306	269	244
Professional/other	253	318	317	313	424	461	484	485	448	412
Grand total, all fields	4,414	4,722	5,134	5,444	6,632	7,518	7,963	7,865	7,330	6,853
Non-U S. citizens with temporary visas, female										
Science and engineering, total	541	564	682	782	981	1,229	1,351	1,455	1,320	1,247
Engineering, total	49	54	70	90	120	149	169	161	178	159
Chemical	14	8	10	11	16	22	31	27	35	21
Civil	4	6	14	12	13	16	27	22	25	23
Electrical	12	11	11	29	29	31	46	43	56	44
Mechanical	3	5	9	9	13	20	20	19	14	13
Other engineering	16	24	26	25	49	60	45	50	48	58
Sciences, total	492	510	612	692	861	1,080	1,182	1,294	1,142	1,088
Physical sciences, total	114	95	127	178	216	248	248	248	199	160
Astronomy	2	4	2	2	7	4	2	4	4	4
Chemistry	72	59	76	106	109	142	173	172	157	115
Physics	40	32	49	36	66	65	71	73	38	39
Other physical sciences	0	0	0	1	1	2	0	1	0	2
Earth, atmospheric, and ocean sciences	13	13	13	13	18	20	38	33	39	22
Mathematics	38	42	43	47	61	86	84	95	84	78
Computer sciences	4	5	8	18	15	23	36	26	41	43
Biological sciences	111	159	172	208	271	365	372	437	354	336
Agricultural sciences	42	41	50	55	81	69	81	90	87	89
Psychology	34	37	36	46	55	56	75	84	80	84
Social sciences	136	118	163	158	182	245	248	281	258	276
Non-S&E, total	321	326	379	422	480	565	639	614	756	706
Health	26	35	43	47	65	70	67	76	115	103
Humanities <sup>1</sup>	100	83	110	112	143	189	215	191	235	239
Education	151	151	173	188	195	215	254	240	268	257
Professional other	44	57	53	75	77	91	103	107	138	107
Grand total, all fields	862	890	1,061	1,204	1,461	1,794	1,990	2,069	2,076	1,953

<sup>1</sup> Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

NOTE: Details may not add to totals because of persons with unknown race/ethnicity.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Total										
Science and engineering, total	19,437	19,894	20,933	21,731	22,867	24,019	24,673	25,441	26,202	26,515
Engineering, total	3,376	3,712	4,187	4,543	4,894	5,215	5,438	5,698	5,822	6,007
Aeronautical/astronautical	118	142	150	178	192	207	234	228	230	251
Chemical	531	584	685	712	658	691	725	737	725	708
Civil	429	477	531	538	553	575	594	624	684	656
Electrical	806	779	1,010	1,137	1,276	1,405	1,483	1,543	1,673	1,731
Industrial	101	120	127	162	151	165	196	236	228	283
Materials/metallurgical	305	392	374	380	440	489	485	535	539	588
Mechanical	536	657	715	760	884	875	987	1,030	1,015	1,024
Other engineering	550	561	595	676	740	808	734	765	728	766
Sciences, total	16,061	16,182	16,746	17,188	17,973	18,804	19,235	19,743	20,380	20,508
Physical sciences, total	3,120	3,238	3,350	3,531	3,524	3,625	3,780	3,699	3,977	3,840
Astronomy	109	100	130	133	128	125	134	145	144	173
Chemistry	1,903	1,975	2,015	1,570	2,100	2,193	2,213	2,137	2,257	2,161
Physics	1,078	1,137	1,172	1,161	1,265	1,286	1,403	1,399	1,548	1,479
Other physical sciences	30	26	33	17	31	21	30	18	28	27
Earth, atmospheric, and ocean sciences	559	602	695	723	738	815	794	771	824	778
Mathematics	729	740	749	859	892	1,039	1,058	1,146	1,118	1,190
Computer sciences	399	450	515	612	705	830	869	880	903	998
Biological sciences	3,807	3,839	4,112	4,115	4,327	4,646	4,798	5,091	5,200	5,370
Agricultural sciences	997	976	1,015	1,086	1,174	1,073	1,063	968	1,078	1,036
Psychology	3,126	3,173	3,074	3,208	3,281	3,250	3,263	3,419	3,380	3,419
Social sciences	3,324	3,164	3,236	3,324	3,332	3,556	3,610	3,769	3,900	3,877
Non-S&E, total	12,465	12,476	12,568	12,595	13,200	13,503	14,183	14,330	14,815	15,095
Health	770	800	882	974	956	1,041	1,112	1,197	1,296	1,331
Humanities 1	3,152	3,170	3,274	3,242	3,535	3,720	4,037	4,095	4,376	4,690
Education	6,649	6,454	6,362	6,281	6,511	6,446	6,644	6,661	6,695	6,546
Professional/other	1,894	2,052	2,553	2,553	2,198	2,296	2,390	2,377	2,448	2,528
Grand total, all fields	31,902	32,370	33,501	34,116	36,067	37,522	38,856	39,771	41,017	41,610
Citizenship known										
Science and engineering, total	18,176	18,523	19,435	19,982	21,934	23,551	24,032	24,683	25,705	25,953
Engineering, total	3,098	3,445	3,867	4,169	4,623	5,108	5,263	5,481	5,706	5,859
Aeronautical/astronautical	105	131	129	166	176	205	215	219	226	247
Chemical	497	566	644	680	642	680	717	713	716	699
Civil	391	436	499	509	525	566	572	607	677	646
Electrical	730	703	922	1,037	1,201	1,376	1,444	1,498	1,634	1,683
Industrial	99	113	117	150	148	162	192	230	228	279
Materials/metallurgical	289	373	352	347	424	481	469	516	530	574
Mechanical	498	611	660	683	833	852	964	988	997	995
Other engineering	489	512	544	597	674	786	690	710	698	736
Sciences, total	15,078	15,078	15,568	13,313	17,311	18,443	18,769	19,202	19,999	20,094
Physical sciences, total	2,933	3,043	3,128	3,021	3,414	3,556	3,702	3,593	3,896	3,770
Astronomy	108	96	124	108	126	123	134	145	144	169
Chemistry	1,806	1,871	1,893	1,844	2,027	2,149	2,169	2,075	2,213	2,116
Physics	991	1,058	1,084	1,055	1,232	1,264	1,371	1,356	1,515	1,458
Other physical sciences	28	18	27	14	29	20	28	17	24	27
Earth, atmospheric, and ocean sciences	524	557	652	669	706	803	777	739	810	765
Mathematics	674	698	691	774	846	1,024	1,018	1,107	1,105	1,153
Computer sciences	372	418	502	574	674	791	854	857	886	982
Biological sciences	3,632	3,633	3,880	3,907	4,232	4,580	4,726	4,997	5,143	5,292
Agricultural sciences	946	921	955	1,006	1,127	1,055	1,045	953	1,069	1,027
Psychology	2,913	2,891	2,813	2,843	3,109	3,151	3,142	3,307	3,288	3,331
Social sciences	3,084	2,917	2,947	3,019	3,203	3,483	3,505	3,649	3,802	3,774
Non-S&E, total	11,619	11,651	11,673	11,692	12,762	13,179	13,877	13,926	14,578	14,763
Health	702	742	810	890	922	1,010	1,081	1,153	1,280	1,290
Humanities 1	2,914	2,924	3,049	2,999	3,436	3,638	3,935	3,981	4,297	4,602
Education	6,273	6,086	5,958	5,862	6,289	6,284	6,538	6,486	6,587	6,396
Professional/other	1,730	1,899	1,856	1,941	2,115	2,247	2,323	2,306	2,414	2,475
Grand total, all fields	29,795	30,174	31,108	31,674	34,696	36,730	37,909	38,609	40,283	40,716

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens										
Science and engineering, total .....	13,022	12,966	13,369	13,467	14,166	14,624	14,558	14,929	15,162	15,460
Engineering, total .....	1,383	1,558	1,780	1,864	1,957	2,086	2,109	2,228	2,215	2,382
Aeronautical/astronautical .....	40	64	67	74	82	103	95	114	110	140
Chemical .....	241	294	358	382	342	348	318	324	293	291
Civil .....	139	162	187	188	180	173	164	168	203	206
Electrical .....	327	320	398	440	491	554	597	630	634	683
Industrial .....	33	44	40	51	56	50	54	89	89	108
Materials/metallurgical .....	119	176	172	173	190	211	202	228	218	238
Mechanical .....	209	241	256	259	299	297	352	347	359	379
Other engineering .....	275	257	302	297	317	350	327	328	309	337
Sciences, total .....	11,639	11,408	11,589	11,603	12,209	12,538	12,449	12,701	12,947	13,078
Physical sciences, total .....	2,032	2,095	2,119	1,984	2,169	2,119	2,157	2,093	2,198	2,136
Astronomy .....	88	72	97	78	92	84	100	106	103	120
Chemistry .....	1,320	1,381	1,378	1,298	1,398	1,350	1,328	1,272	1,291	1,237
Physics .....	606	627	626	597	660	671	709	704	789	764
Other physical sciences .....	18	15	18	11	19	14	20	11	15	15
Earth, atmospheric, and ocean sciences .....	404	410	493	518	516	592	506	463	507	478
Mathematics .....	366	345	342	393	375	463	454	496	504	554
Computer sciences .....	202	243	284	338	348	388	422	425	426	484
Biological sciences .....	3,124	2,981	3,131	3,117	3,190	3,310	3,327	3,448	3,418	3,489
Agricultural sciences .....	579	584	539	606	630	564	511	457	519	492
Psychology .....	2,767	2,747	2,668	2,683	2,919	2,953	2,900	3,069	3,053	3,068
Social sciences .....	2,165	2,003	2,013	1,964	2,062	2,149	2,172	2,250	2,322	2,377
Non-S&E, total .....	10,064	10,018	9,922	9,933	10,739	10,937	11,419	11,491	11,967	12,143
Health .....	568	606	657	729	721	779	809	879	961	938
Humanities <sup>1</sup> .....	2,528	2,509	2,609	2,530	2,899	2,975	3,211	3,274	3,485	3,745
Education .....	5,629	5,493	5,300	5,246	5,635	5,607	5,820	5,765	5,851	5,680
Professional/other .....	1,339	1,410	1,356	1,428	1,484	1,576	1,579	1,573	1,670	1,780
Grand total, all fields .....	23,086	22,984	23,291	23,400	24,905	25,561	25,977	26,420	27,129	27,603
Non-U.S. citizens										
Science and engineering, total .....	5,154	5,557	6,066	6,515	7,768	8,927	9,474	9,754	10,543	10,493
Engineering, total .....	1,715	1,887	2,087	2,305	2,666	3,022	3,154	3,253	3,491	3,477
Aeronautical/astronautical .....	65	67	62	92	94	102	120	105	116	107
Chemical .....	256	272	286	298	300	332	399	389	423	408
Civil .....	252	274	312	321	345	393	408	439	474	440
Electrical .....	403	383	524	597	710	822	847	868	1,000	1,000
Industrial .....	66	69	77	99	92	112	138	141	139	171
Materials/metallurgical .....	170	197	180	174	234	270	267	288	312	336
Mechanical .....	289	370	404	424	534	555	612	641	638	616
Other engineering .....	214	255	242	300	357	436	363	382	389	399
Sciences, total .....	3,439	3,670	3,979	4,210	5,102	5,905	6,320	6,501	7,052	7,016
Physical sciences, total .....	901	948	1,009	1,037	1,245	1,437	1,545	1,500	1,698	1,634
Astronomy .....	20	24	27	30	34	39	34	39	41	49
Chemistry .....	486	490	515	546	629	799	841	803	922	879
Physics .....	385	431	458	458	572	593	662	652	726	694
Other physical sciences .....	10	3	9	3	10	6	8	6	9	12
Earth, atmospheric, and ocean sciences .....	120	147	159	151	190	211	271	276	303	287
Mathematics .....	308	353	349	381	471	561	564	611	601	599
Computer sciences .....	170	175	218	236	326	403	432	432	460	498
Biological sciences .....	508	652	749	790	1,042	1,270	1,399	1,549	1,725	1,803
Agricultural sciences .....	367	337	416	400	497	491	534	496	550	535
Psychology .....	146	144	145	160	190	198	242	238	235	263
Social sciences .....	919	914	934	1,055	1,141	1,334	1,333	1,399	1,480	1,397
Non-S&E, total .....	1,555	1,633	1,751	1,759	2,023	2,242	2,458	2,435	2,611	2,620
Health .....	134	136	153	161	201	231	272	274	319	352
Humanities <sup>1</sup> .....	386	415	440	469	537	663	724	707	812	857
Education .....	644	593	658	616	654	677	718	721	736	716
Professional/other .....	391	489	500	513	631	671	744	733	744	695
Grand total, all fields .....	6,709	7,190	7,817	8,274	9,791	11,169	11,932	12,189	13,154	13,113

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U.S. citizens with permanent visas										
Science and engineering, total .....	994	1,089	1,130	1,124	1,197	1,285	1,382	1,641	3,022	3,501
Engineering, total .....	343	355	366	365	389	388	411	469	838	954
Aeronautical/astronautical .....	5	8	14	8	8	11	8	6	20	13
Chemical .....	57	56	50	62	50	51	60	53	87	90
Civil .....	53	41	46	59	61	40	51	59	89	103
Electrical .....	83	73	105	99	108	132	122	165	265	288
Industrial .....	14	13	11	8	13	18	20	16	30	41
Materials/metallurgical .....	33	38	27	21	26	29	34	39	79	113
Mechanical .....	58	67	71	66	69	62	74	87	179	179
Other engineering .....	40	59	42	42	54	45	42	44	89	127
Sciences, total .....	651	734	764	759	808	897	971	1,172	2,184	2,547
Physical sciences, total .....	134	147	139	147	172	180	199	237	591	704
Astronomy .....	3	1	7	4	4	2	6	5	9	21
Chemistry .....	93	91	73	85	99	110	112	128	325	386
Physics .....	37	55	55	57	65	68	81	102	255	295
Other physical sciences .....	1	0	4	1	4	0	0	2	2	2
Earth, atmospheric, and ocean sciences .....	23	25	27	29	19	26	35	41	106	115
Mathematics .....	36	51	44	35	47	55	53	94	153	217
Computer sciences .....	47	32	42	58	55	63	67	84	117	133
Biological sciences .....	117	160	192	182	189	211	240	303	667	832
Agricultural sciences .....	47	48	71	45	57	56	62	49	97	106
Psychology .....	65	59	61	54	73	65	86	90	84	101
Social sciences .....	182	212	188	209	196	241	229	274	369	339
Non-S&E, total .....	439	489	492	502	501	572	597	614	726	806
Health .....	35	40	35	27	35	60	46	60	89	107
Humanities <sup>1</sup> .....	137	163	150	186	183	219	229	238	280	308
Education .....	173	172	177	164	153	174	165	175	199	215
Professional/other .....	94	114	130	125	130	119	157	141	158	176
Grand total, all fields .....	1,433	1,578	1,622	1,626	1,698	1,857	1,979	2,255	3,748	4,307
Non-U.S. citizens with temporary visas										
Science and engineering, total .....	4,160	4,468	4,936	5,391	6,571	7,642	8,092	8,113	7,521	6,992
Engineering, total .....	1,372	1,532	1,721	1,940	2,277	2,634	2,743	2,784	2,653	2,523
Aeronautical/astronautical .....	60	59	48	84	86	91	112	99	96	94
Chemical .....	199	216	236	236	250	281	339	336	336	318
Civil .....	199	233	266	262	284	353	357	380	385	337
Electrical .....	320	310	419	498	602	690	725	703	735	712
Industrial .....	52	56	66	91	79	94	118	125	109	130
Materials/metallurgical .....	137	159	153	153	208	241	233	249	233	223
Mechanical .....	231	303	333	358	465	493	538	554	459	437
Other engineering .....	174	196	200	258	303	391	321	338	300	272
Sciences, total .....	2,788	2,936	3,215	3,451	4,294	5,008	5,349	5,329	4,868	4,469
Physical sciences, total .....	767	801	870	890	1,073	1,257	1,346	1,263	1,107	930
Astronomy .....	17	23	20	26	30	37	28	34	32	28
Chemistry .....	393	399	442	461	530	689	729	675	597	493
Physics .....	348	376	403	401	507	525	581	550	471	399
Other physical sciences .....	9	3	5	2	6	6	8	4	7	10
Earth, atmospheric, and ocean sciences .....	97	122	132	122	171	185	236	235	197	172
Mathematics .....	272	302	305	346	424	506	511	517	448	382
Computer sciences .....	123	143	176	178	271	340	365	348	343	365
Biological sciences .....	391	492	557	608	853	1,059	1,159	1,246	1,058	971
Agricultural sciences .....	320	289	345	355	440	435	472	447	453	429
Psychology .....	81	85	84	106	117	133	156	148	151	162
Social sciences .....	737	702	746	846	945	1,093	1,104	1,125	1,111	1,058
Non-S&E, total .....	1,116	1,144	1,259	1,257	1,522	1,670	1,861	1,821	1,885	1,814
Health .....	99	96	118	134	166	171	226	214	230	245
Humanities <sup>1</sup> .....	249	252	290	283	354	444	495	469	532	549
Education .....	471	421	481	452	501	503	553	546	537	501
Professional/other .....	297	375	370	388	501	552	587	592	586	519
Grand total, all fields .....	5,276	5,612	6,195	6,648	8,093	9,312	9,953	9,934	9,406	8,806

See explanatory information, if any, and SOURCE at end of table.

**Table 4. Science and engineering (S&E) doctorates awarded, by major field and citizenship status of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Citizenship unknown										
Science and engineering, total .....	1,261	1,371	1,498	1,749	933	468	641	758	497	562
Engineering, total .....	278	267	320	374	271	107	175	217	116	148
Aeronautical/astronautical .....	13	11	21	12	16	2	19	9	4	4
Chemical .....	34	18	41	32	16	11	8	24	9	9
Civil .....	38	41	32	29	28	9	22	17	7	10
Electrical .....	76	76	88	100	75	29	39	45	39	48
Industrial .....	2	7	10	12	3	3	4	6	0	4
Materials/metallurgical .....	16	19	22	33	16	8	16	19	9	14
Mechanical .....	38	46	55	77	51	23	23	42	18	29
Other engineering .....	61	49	51	79	66	22	44	55	30	30
Sciences, total .....	983	1,104	1,178	1,375	662	361	466	541	381	414
Physical sciences, total .....	187	195	222	240	110	69	78	106	81	70
Astronomy .....	1	4	6	5	2	2	0	0	0	4
Chemistry .....	97	104	122	126	73	44	44	62	44	45
Physics .....	87	79	88	106	33	22	32	43	33	21
Other physical sciences .....	2	8	6	3	2	1	2	1	4	0
Earth, atmospheric, and ocean sciences .....	35	45	43	54	32	12	17	32	14	13
Mathematics .....	55	42	58	85	46	15	40	39	13	37
Computer sciences .....	27	32	13	38	31	9	15	23	17	16
Biological sciences .....	175	206	232	208	95	66	72	94	57	78
Agricultural sciences .....	51	55	60	80	47	18	18	15	9	9
Psychology .....	213	282	261	335	172	99	121	112	92	88
Social sciences .....	240	247	289	305	129	73	105	120	98	103
Non-S&E, total .....	846	825	895	903	438	324	306	404	237	332
Health .....	68	58	72	84	34	31	31	44	16	41
Humanities <sup>1</sup> .....	238	246	225	243	99	82	102	114	79	88
Education .....	376	368	404	419	222	162	106	175	108	150
Professional/other .....	164	153	194	157	83	49	67	71	34	53
Grand total, all fields .....	2,107	2,196	2,393	2,652	1,371	792	947	1,162	734	894

<sup>1</sup> Categories differ from those published by other Federal sponsors and the National Research Council in that linguistics, history of science, American studies, and archaeology are included not in humanities but in social science.

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded,  
by major field and citizenship status of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
<b>Total</b>										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	17.4	18.7	20.0	20.9	21.4	21.7	22.0	22.4	22.2	22.7
Aeronautical/astronautical .....	6	7	7	8	8	9	9	9	9	9
Chemical .....	2.7	2.9	3.3	3.3	2.9	2.9	2.9	2.9	2.8	2.7
Civil .....	2.2	2.4	2.5	2.5	2.4	2.4	2.4	2.5	2.6	2.5
Electrical .....	4.1	3.9	4.8	5.2	5.6	5.8	6.0	6.1	6.4	6.5
Industrial .....	.5	6	6	7	.7	.7	8	9	9	11
Materials/metallurgical .....	1.6	2.0	1.8	1.7	1.9	2.0	2.0	2.1	2.1	2.2
Mechanical .....	2.8	3.3	3.4	3.5	3.9	3.6	4.0	4.0	3.9	3.9
Other engineering .....	2.8	2.8	2.8	3.1	3.2	3.4	3.0	3.0	2.8	2.9
Sciences, total .....	82.6	81.3	80.0	79.1	78.6	78.3	78.0	77.6	77.8	77.3
Physical sciences, total .....	16.1	16.3	16.0	15.0	15.4	15.1	15.3	14.5	15.2	14.5
Astronomy .....	6	5	6	5	.6	5	5	6	5	7
Chemistry .....	9.8	9.9	9.6	9.1	9.2	9.1	9.0	8.4	8.6	8.2
Physics .....	5.5	5.7	5.6	5.3	5.5	5.4	5.7	5.5	5.9	5.6
Other physical sciences .....	2	1	.2	1	1	1	1	1	1	1
Earth, atmospheric, and ocean sciences .....	2.9	3.0	3.3	3.3	3.2	3.4	3.2	3.0	3.1	2.9
Mathematics .....	3.8	3.7	3.6	4.0	3.9	4.3	4.3	4.5	4.3	4.5
Computer sciences .....	2.1	2.3	2.5	2.8	3.1	3.3	3.5	3.5	3.4	3.8
Biological sciences .....	19.6	19.3	19.6	18.9	18.9	19.3	19.4	20.0	19.8	20.3
Agricultural sciences .....	5.1	4.9	4.8	5.0	5.1	4.5	4.3	3.8	4.1	3.9
Psychology .....	16.1	15.9	14.7	14.8	14.3	13.5	13.2	13.4	12.9	12.9
Social sciences .....	17.1	15.9	15.5	15.3	14.6	14.8	14.6	14.8	14.9	14.6
<b>Citizenship known</b>										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	17.0	18.6	19.9	20.9	21.1	21.7	21.9	22.2	22.2	22.6
Aeronautical/astronautical .....	6	7	7	8	8	9	9	9	9	10
Chemical .....	2.7	3.1	3.3	3.4	2.9	2.9	3.0	2.9	2.8	2.7
Civil .....	2.2	2.4	2.6	2.5	2.4	2.4	2.4	2.5	2.6	2.5
Electrical .....	4.0	3.8	4.7	5.2	5.5	5.8	6.0	6.1	6.4	6.5
Industrial .....	.5	.6	.6	8	.7	7	8	9	9	11
Materials/metallurgical .....	1.6	2.0	1.8	1.7	1.9	2.0	2.0	2.1	2.1	2.2
Mechanical .....	2.7	3.3	3.4	3.4	3.8	3.6	4.0	4.0	3.9	3.8
Other engineering .....	2.7	2.8	2.8	3.0	3.1	3.3	2.9	2.9	2.7	2.8
Sciences, total .....	83.0	81.4	80.1	79.1	78.9	78.3	78.1	77.8	77.8	77.4
Physical sciences, total .....	16.1	16.4	16.1	15.1	15.6	15.1	15.4	14.6	15.2	14.5
Astronomy .....	.6	.5	.6	.5	.6	.5	.6	.6	.6	.7
Chemistry .....	9.9	10.1	9.7	9.2	9.2	9.1	9.0	8.4	8.6	8.2
Physics .....	5.5	5.7	5.6	5.3	5.6	5.4	5.7	5.5	5.9	5.6
Other physical sciences .....	.2	1	1	1	.1	1	1	1	1	1
Earth, atmospheric, and ocean sciences .....	2.9	3.0	3.4	3.3	3.2	3.4	3.2	3.0	3.2	2.9
Mathematics .....	3.7	3.8	3.6	3.9	3.9	4.3	4.2	4.5	4.3	4.4
Computer sciences .....	2.0	2.3	2.6	2.9	3.1	3.4	3.6	3.5	3.4	3.8
Biological sciences .....	20.0	19.6	20.0	19.6	19.3	19.4	19.7	20.2	20.0	20.4
Agricultural sciences .....	5.2	5.0	4.9	5.0	5.1	4.5	4.3	3.9	4.2	4.0
Psychology .....	16.0	15.6	14.5	14.2	14.2	13.4	13.1	13.4	12.8	12.8
Social sciences .....	17.0	15.7	15.2	15.1	14.6	14.8	14.6	14.8	14.8	14.5

See explanatory information, if any, and SOURCE at end of table

**Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded,  
by major field and citizenship status of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
U.S. citizens										
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	10.6	12.0	13.3	13.8	13.8	14.3	14.5	14.9	14.6	15.4
Aeronautical/astronautical	3.5	5.5	5.5	5.6	5.7	5.7	5.8	5.7	5.7	5.9
Chemical	1.9	2.3	2.7	2.8	2.4	2.4	2.2	2.2	1.9	1.9
Civil	1.1	1.2	1.4	1.4	1.3	1.2	1.1	1.1	1.3	1.3
Electrical	2.5	2.5	3.0	3.3	3.5	3.8	4.1	4.2	4.2	4.4
Industrial	3.3	3.3	.3	.4	4	3	4	.6	.6	.7
Materials/metallurgical	9.9	1.4	1.3	1.3	1.3	1.4	1.4	1.5	1.4	1.5
Mechanical	1.6	1.9	1.9	1.9	2.1	2.0	2.4	2.3	2.4	2.5
Other engineering	2.1	2.0	2.3	2.2	2.2	2.4	2.2	2.2	2.0	2.2
Sciences, total	89.4	88.0	86.7	86.2	86.2	85.7	85.5	85.1	85.4	84.6
Physical sciences total	15.6	16.2	15.9	14.7	15.3	14.5	14.8	14.0	14.5	13.8
Astronomy	7.7	.6	7	6	.6	.6	.7	.7	.7	.8
Chemistry	10.1	10.7	10.3	9.6	9.9	9.2	9.1	8.5	8.5	8.0
Physics	4.7	4.8	4.7	4.4	4.7	4.6	4.9	4.7	5.2	4.9
Other physical sciences	1.1	.1	1	1	1	1	.1	.1	1	.1
Earth, atmospheric, and ocean sciences	3.1	3.2	3.7	3.8	3.6	4.0	3.5	3.1	3.3	3.1
Mathematics	2.8	2.7	2.6	2.9	2.6	3.2	3.1	3.3	3.3	3.6
Computer sciences	1.6	1.9	2.1	2.5	2.5	2.7	2.9	2.8	2.8	3.1
Biological sciences	24.0	23.0	23.4	23.1	22.5	22.6	22.9	23.1	22.5	22.6
Agricultural sciences	4.4	4.5	4.0	4.5	4.4	3.9	3.5	3.1	3.4	3.2
Psychology	21.2	21.2	20.0	19.9	20.6	20.2	19.9	20.6	20.1	19.8
Social sciences	16.6	15.4	15.1	14.6	14.6	14.7	14.9	15.1	15.3	15.4
Non-U.S. citizens										
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	33.3	34.0	34.4	35.4	34.3	33.9	33.3	33.4	33.1	33.1
Aeronautical/astronautical	1.3	1.2	1.0	1.4	1.2	1.1	1.3	1.1	1.1	1.0
Chemical	5.0	4.9	4.7	4.6	3.9	3.7	4.2	4.0	4.0	3.9
Civil	4.9	4.9	5.1	4.9	4.4	4.4	4.3	4.5	4.5	4.2
Electrical	7.8	6.9	8.6	9.2	9.1	9.2	8.9	8.9	9.5	9.5
Industrial	1.3	1.2	1.3	1.5	1.2	1.3	1.5	1.4	1.3	1.6
Materials/metallurgical	3.3	3.5	3.0	2.7	3.0	3.0	2.8	3.0	3.0	3.2
Mechanical	5.6	6.7	6.7	6.5	6.9	6.2	6.5	6.6	6.1	5.9
Other engineering	4.2	4.6	4.0	4.6	4.6	4.9	3.8	3.9	3.7	3.8
Sciences, total	66.7	66.0	65.6	64.6	65.7	66.1	66.7	66.6	66.9	66.9
Physical sciences, total	17.5	17.1	16.6	15.9	16.0	16.1	16.3	15.4	16.1	15.6
Astronomy	4.4	4	4	5	4	4	4	4	4	5
Chemistry	9.4	8.8	8.5	8.4	8.1	9.0	8.9	8.2	8.7	8.4
Physics	7.5	7.8	7.6	7.0	7.4	6.6	7.0	6.7	6.9	6.6
Other physical sciences	2.2	.1	.1	0	.1	.1	.1	.1	.1	.1
Earth, atmospheric, and ocean sciences	2.3	2.6	2.6	2.3	2.4	2.4	2.9	2.8	2.9	2.7
Mathematics	6.0	6.4	5.8	5.8	6.1	6.3	6.0	6.3	5.7	5.7
Computer sciences	3.3	3.1	3.6	3.6	4.2	4.5	4.6	4.4	4.4	4.7
Biological sciences	9.9	11.7	12.3	12.1	13.4	14.2	14.8	15.9	16.4	17.2
Agricultural sciences	7.1	6.1	6.9	6.1	6.4	5.5	5.6	5.1	5.2	5.1
Psychology	2.8	2.6	2.4	2.5	2.4	2.2	2.6	2.4	2.2	2.5
Social sciences	17.8	16.4	15.4	16.2	14.7	14.9	14.1	14.3	14.0	13.3

See explanatory information, if any, and SOURCE at end of table

**Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded,  
by major field and citizenship status of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Non-U S. citizens with permanent visas										
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	34.5	32.6	32.4	32.5	32.5	30.2	29.7	28.6	27.7	27.2
Aeronautical-astronautical	5.7	1.2	7.7	7.7	9.9	6.6	4.4	4.4	7.7	4.4
Chemical	5.7	5.1	4.4	5.5	4.2	4.0	4.3	3.2	2.9	2.6
Civil	5.3	3.8	4.1	5.2	5.1	3.1	3.7	3.6	2.9	2.9
Electrical	8.4	6.7	9.3	8.8	9.0	10.3	8.8	10.1	8.8	8.2
Industrial	1.4	1.2	1.0	7	1.1	1.4	1.4	1.0	1.0	1.2
Materials-metallurgical	3.3	3.5	2.4	1.9	2.2	2.3	2.5	2.4	2.6	3.2
Mechanical	5.8	6.7	6.3	5.9	5.8	4.8	5.4	5.3	5.9	5.1
Other engineering	4.0	5	3.7	3.7	4.5	3.5	3.0	2.7	2.9	3.6
Sciences, total	65.5	67.4	67.6	67.5	67.5	69.8	70.3	71.4	72.3	72.8
Physical sciences total	13.5	13.5	12.3	13.1	14.4	14.0	14.4	14.4	19.6	20.1
Astronomy	3	1	6	4	3	2	4	3	3	6
Chemistry	9.4	8.4	6.5	7.6	8.3	8.6	8.1	7.8	10.8	11.0
Physics	3.7	5.1	4.9	5.1	5.4	5.3	5.9	6.2	8.4	8.4
Other physical sciences	1	0	4	1	.3	.0	.0	.1	1	1
Earth, atmospheric, and ocean sciences	2.3	2.3	2.4	2.6	1.6	2.0	2.5	2.5	3.5	3.3
Mathematics	3.6	4.7	3.9	3.1	3.9	4.3	3.8	5.7	5.1	6.2
Computer sciences	4.7	2.9	3.7	3.2	4.6	4.9	4.8	5.1	3.9	3.8
Biological sciences	11.8	14.7	17.0	16.2	15.8	16.4	17.4	18.5	22.1	23.8
Agricultural sciences	4.7	4.4	6.3	4.0	4.8	4.4	4.5	3.0	3.2	3.0
Psychology	6.5	5.4	5.4	4.8	6.1	5.1	6.2	5.5	2.8	2.9
Social sciences	18.3	19.5	16.6	18.6	16.4	18.8	16.6	16.7	12.2	9.7
Non-U S. citizens with temporary visas										
Science and engineering, total	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total	33.0	34.3	34.9	36.0	34.7	34.5	33.9	34.3	35.3	36.1
Aeronautical-astronautical	1.4	1.3	1.0	1.6	1.3	1.2	1.4	1.2	1.3	1.3
Chemical	4.8	4.8	4.8	4.4	3.8	3.7	4.2	4.1	4.5	4.5
Civil	4.8	5.2	5.4	4.9	4.3	4.6	4.4	4.7	5.1	4.8
Electrical	7.7	6.9	8.5	9.2	9.2	9.0	9.0	8.7	9.8	10.2
Industrial	1.2	1.3	1.3	7	1.2	1.2	1.5	1.5	1.4	1.9
Materials-metallurgical	3.3	3.6	3.1	2.8	3.2	3.2	2.9	3.1	3.1	3.2
Mechanical	5.6	6.8	6.7	6.6	7.1	6.5	6.6	6.8	6.1	6.3
Other engineering	4.2	4.4	4.1	4.8	4.6	5.1	4.0	4.2	4.0	3.9
Sciences, total	67.0	65.7	65.1	64.0	65.3	65.5	66.1	65.7	64.7	63.9
Physical sciences total	18.4	17.9	17.6	16.5	16.3	16.4	16.6	15.6	14.7	13.3
Astronomy	4	5	4	5	5	5	3	4	4	4
Chemistry	9.4	8.9	9.0	8.6	8.1	9.0	9.0	8.3	7.9	7.1
Physics	8.4	8.4	8.2	7.4	7.7	6.9	7.2	6.8	6.3	5.7
Other physical sciences	2	1	1	.0	.1	.1	.1	.0	1	1
Earth, atmospheric, and ocean sciences	2.3	2.7	2.7	2.3	2.6	2.4	2.9	2.9	2.6	2.5
Mathematics	6.5	6.8	6.2	6.4	6.5	6.6	6.3	6.4	6.0	5.5
Computer sciences	3.0	3.2	3.6	3.3	4.1	4.4	4.5	4.3	4.6	5.2
Biological sciences	9.4	11.0	11.3	11.3	13.0	13.9	14.3	15.4	14.1	13.9
Agricultural sciences	7.7	6.5	7.0	6.6	6.7	5.7	5.8	5.5	6.0	6.1
Psychology	1.9	1.9	1.7	2.0	1.8	1.7	1.9	1.8	2.0	2.3
Social sciences	17.7	15.7	15.1	15.7	14.4	14.3	13.6	13.9	14.8	15.1

See explanatory information, if any, and SOURCE at end of table

**Table 4a. Percentage distribution of science and engineering (S&E) doctorates awarded,  
by major field and citizenship status of recipients: 1986-95**

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Field of study	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Citizenship unknown										
Science and engineering, total .....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Engineering, total .....	22.0	19.5	21.4	21.4	29.0	22.9	27.3	28.6	23.3	26.3
Aeronautical/astronautical .....	1.0	.8	1.4	7	1.7	.4	3.0	1.2	.8	.7
Chemical .....	2.7	1.3	2.7	1.8	1.7	2.4	1.2	3.2	1.8	1.6
Civil .....	3.0	3.0	2.1	1.7	3.0	1.9	3.4	2.2	1.4	1.8
Electrical .....	6.0	5.5	5.9	5.7	8.0	6.2	6.1	5.9	7.8	8.5
Industrial .....	.2	.5	.7	.7	.3	.6	.6	.8	0	.7
Materials/metallurgical .....	1.3	1.4	1.5	1.9	1.7	1.7	2.5	2.5	1.8	2.5
Mechanical .....	3.0	3.4	3.7	4.4	5.5	4.9	3.6	5.5	3.6	5.2
Other engineering .....	4.8	3.6	3.4	4.5	7.1	4.7	6.9	7.3	6.0	5.3
Sciences, total .....	78.0	80.5	78.6	78.6	71.0	77.1	72.7	71.4	76.7	73.7
Physical sciences, total .....	14.8	14.2	14.8	13.7	11.8	14.7	12.2	14.0	16.3	12.5
Astronomy .....	1	.3	.4	.3	.2	.4	0	0	.0	.7
Chemistry .....	7.7	7.6	8.1	7.2	7.8	9.4	6.9	8.2	8.9	8.0
Physics .....	6.9	5.8	5.9	6.1	3.5	4.7	5.0	5.7	6.6	3.7
Other physical sciences .....	.2	.6	.4	.2	.2	.2	.3	.1	.8	0
Earth, atmospheric, and ocean sciences .....	2.8	3.3	2.9	3.1	3.4	2.6	2.7	4.2	2.8	2.3
Mathematics .....	4.4	3.1	3.9	4.9	4.9	3.2	6.2	5.1	2.6	6.6
Computer sciences .....	2.1	2.3	9	2.2	3.3	1.9	2.3	3.0	3.4	2.8
Biological sciences .....	13.9	15.0	15.5	11.9	10.2	14.1	11.2	12.4	11.5	13.9
Agricultural sciences .....	4.0	4.0	4.0	4.6	5.0	3.8	2.8	2.0	1.8	1.6
Psychology .....	16.9	20.6	17.4	20.9	18.4	21.2	18.9	14.8	18.5	15.7
Social sciences .....	19.0	18.0	19.3	17.4	13.8	15.6	16.4	15.8	19.7	18.3

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Total non-U.S. citizens, S&E										
Total foreign citizenship .....	5,154	5,557	6,066	6,515	7,768	8,927	9,474	9,754	10,543	10,493
North America, total .....	329	318	355	403	446	525	515	506	547	505
Canada .....	178	181	203	220	253	297	304	285	275	274
Caribbean .....	29	23	28	29	36	54	44	38	61	59
Central America .....	25	28	32	34	53	46	52	44	69	43
Mexico .....	97	86	92	120	104	128	115	139	142	129
South America, total .....	301	311	294	297	343	387	394	394	408	358
Argentina .....	40	28	38	43	65	62	86	53	56	49
Brazil .....	97	112	94	100	100	119	133	151	157	137
Chile .....	44	45	45	47	50	54	48	52	42	38
Colombia .....	24	27	46	27	40	49	37	35	48	45
South America, other .....	96	99	71	80	88	103	90	103	105	89
Europe, total .....	563	625	691	709	801	972	950	1,104	1,150	1,253
Belgium .....	20	16	21	15	31	43	42	24	21	32
England, United Kingdom .....	78	96	116	96	100	132	137	154	128	132
France .....	34	48	53	51	65	67	77	93	96	83
Germany .....	62	74	78	102	123	118	124	164	196	208
Europe, other .....	369	391	423	445	482	612	570	669	709	798
East Asia, total .....	1,670	1,970	2,242	2,563	3,604	4,487	4,864	5,010	5,484	5,483
Taiwan .....	709	790	786	857	1,012	1,127	1,242	1,213	1,301	1,239
China, People's Republic of .....	198	293	480	620	1,150	1,793	2,045	2,227	2,531	2,751
Hong Kong .....	73	87	81	93	94	121	109	109	95	90
Japan .....	111	83	104	106	147	125	132	132	182	154
Korea .....	402	549	621	753	979	1,114	1,126	1,123	1,150	1,004
Thailand .....	109	95	98	76	111	93	87	77	97	113
East Asia, other .....	68	73	72	58	111	114	123	129	128	132
West Asia, total .....	1,208	1,231	1,233	1,308	1,654	1,670	1,891	1,903	2,077	2,177
India .....	469	503	520	536	711	752	861	933	1,065	1,204
Iran .....	214	182	173	198	258	227	200	203	174	173
Iraq .....	27	44	36	24	27	24	34	17	22	14
Israel .....	82	67	66	69	79	89	87	89	109	85
Lebanon .....	29	43	39	51	45	55	62	50	73	56
Saudi Arabia .....	49	50	52	61	63	67	76	46	76	71
Turkey .....	84	86	81	78	106	100	132	136	144	166
West Asia, other .....	254	256	266	291	365	356	439	429	414	408
Pacific/Australasia, total .....	151	137	156	166	175	216	220	227	231	230
Australia .....	34	42	39	41	46	35	40	47	56	60
Indonesia .....	41	43	43	52	53	69	78	78	83	83
New Zealand .....	17	14	17	27	16	23	16	24	15	26
Philippines .....	59	36	56	45	59	89	83	74	75	59
Pacific/Australasia, other .....	0	2	1	1	1	0	3	4	2	2
Africa, total .....	451	408	450	446	539	500	510	474	583	424
Egypt .....	101	98	115	109	160	112	101	88	104	79
Nigeria .....	81	89	87	59	83	83	68	55	60	53
Africa, other .....	269	221	248	278	296	305	341	331	419	292
Country unknown .....	481	557	645	623	206	170	130	136	63	63

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Total non-U.S. citizens, engineering										
Total foreign citizenship .....	1,715	1,887	2,087	2,305	2,666	3,022	3,154	3,253	3,491	3,477
North America, total .....	49	62	63	76	84	84	73	82	90	82
Canada .....	18	29	28	38	41	54	46	42	36	41
Caribbean .....	6	6	2	5	7	3	5	4	14	7
Central America .....	5	6	6	5	11	5	6	9	10	8
Mexico .....	20	21	27	28	25	22	16	27	30	26
South America, total .....	63	79	69	73	84	86	87	97	111	88
Argentina .....	10	9	6	6	12	12	14	10	7	7
Brazil .....	17	38	25	30	31	34	31	46	49	46
Chile .....	8	10	9	9	11	8	10	5	8	8
Colombia .....	4	7	9	5	8	11	9	8	12	10
South America, other .....	24	15	20	23	22	21	23	28	35	17
Europe, total .....	148	152	171	198	205	200	202	244	257	297
Belgium .....	4	6	6	5	12	9	10	7	7	12
England, United Kingdom .....	12	9	11	14	14	14	17	18	14	20
France .....	13	16	22	18	27	19	25	32	32	24
Germany .....	10	7	11	17	15	8	18	23	29	37
Europe, other .....	109	114	121	144	137	150	132	164	175	204
East Asia total .....	682	803	889	988	1,266	1,630	1,701	1,733	1,887	1,867
Taiwan .....	351	397	400	427	476	597	637	592	670	616
China, People's Republic of .....	56	86	132	159	328	477	508	543	656	771
Hong Kong .....	27	22	33	38	30	30	37	32	14	20
Japan .....	28	15	24	19	17	29	25	23	46	30
Korea .....	175	238	257	308	360	435	437	484	429	344
Thailand .....	26	20	24	16	21	20	21	18	34	38
East Asia, other .....	19	25	19	21	34	42	36	41	38	48
West Asia, total .....	470	477	532	577	740	768	863	889	908	960
India .....	204	204	255	251	314	357	405	448	480	572
Iran .....	100	88	81	110	139	123	110	95	92	85
Iraq .....	4	10	8	9	14	11	14	6	9	8
Israel .....	26	20	25	19	22	27	26	23	17	19
Lebanon .....	11	27	18	25	35	38	37	27	45	31
Saudi Arabia .....	14	16	14	26	22	26	31	19	28	25
Turkey .....	49	43	42	52	59	64	81	74	64	72
West Asia, other .....	62	69	89	85	135	122	159	197	173	148
Pacific/Australasia, total .....	21	24	24	26	25	45	48	43	50	44
Australia .....	6	5	2	2	3	7	11	6	11	7
Indonesia .....	9	13	11	12	14	19	24	29	28	29
New Zealand .....	1	2	4	3	2	2	1	0	1	3
Philippines .....	5	4	7	9	6	17	11	7	9	5
Pacific/Australasia, other .....	0	0	0	0	0	0	1	1	1	0
Africa, total .....	118	107	138	140	187	155	138	121	168	122
Egypt .....	53	40	47	49	82	57	46	48	63	48
Nigeria .....	15	16	21	11	23	20	11	12	6	14
Africa, other .....	50	51	70	80	82	78	81	61	99	60
Country unknown .....	164	183	201	227	75	54	42	44	20	17

See explanatory information, if any, and SOURCE at end of table

**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Total non-U.S. citizens sciences										
Total foreign citizenship . . . . .	3,439	3,670	3,979	4,210	5,102	5,905	6,320	6,501	7,052	7,016
North America. total . . . . .	280	256	292	327	362	441	442	424	457	423
Canada . . . . .	160	152	175	182	212	243	258	243	239	233
Caribbean . . . . .	23	17	26	24	29	51	39	34	47	52
Central America . . . . .	20	22	26	29	42	41	46	35	59	35
Mexico . . . . .	77	65	65	92	79	106	99	112	112	103
South America. total . . . . .	238	232	225	224	259	301	307	297	297	270
Argentina . . . . .	30	19	32	37	53	50	72	43	49	42
Brazil . . . . .	80	74	69	70	69	85	102	105	108	91
Chile . . . . .	36	35	36	38	39	46	38	47	34	30
Colombia . . . . .	20	20	37	22	32	38	28	27	36	35
South America. other . . . . .	72	84	51	57	66	82	67	75	70	72
Europe total . . . . .	415	473	520	511	596	772	748	860	893	956
Belgium . . . . .	16	10	15	10	19	34	32	17	14	20
England, United Kingdom . . . . .	66	87	105	82	86	118	120	136	114	112
France . . . . .	21	32	31	33	38	48	52	61	64	59
Germany . . . . .	52	67	67	85	108	110	106	141	167	171
Europe. other . . . . .	260	277	302	301	345	462	438	505	534	594
East Asia. total . . . . .	988	1,167	1,353	1,575	2,338	2,857	3,163	3,277	3,597	3,616
Taiwan . . . . .	358	393	386	430	536	530	605	621	631	623
China, People's Republic of . . . . .	142	207	348	461	822	1,316	1,537	1,684	1,875	1,980
Hong Kong . . . . .	46	65	48	55	64	91	72	77	81	70
Japan . . . . .	83	68	80	87	130	96	107	109	136	124
Korea . . . . .	227	311	364	445	619	679	689	639	721	660
Thailand . . . . .	83	75	74	60	90	73	66	59	63	75
East Asia. other . . . . .	49	48	53	37	77	72	87	88	90	84
West Asia. total . . . . .	738	754	701	731	914	902	1,028	1,014	1,169	1,217
India . . . . .	265	299	265	285	397	395	456	485	585	632
Iran . . . . .	114	94	92	88	119	104	90	108	82	88
Iraq . . . . .	23	34	28	15	13	13	20	11	13	6
Israel . . . . .	56	47	41	50	57	62	61	66	92	66
Lebanon . . . . .	18	16	21	26	10	17	25	23	28	25
Saudi Arabia . . . . .	35	34	38	35	41	41	45	27	48	46
Turkey . . . . .	35	43	39	26	47	36	51	62	80	94
West Asia. other . . . . .	192	187	177	206	230	234	280	232	241	260
Pacific/Australasia. total . . . . .	130	113	132	140	150	171	172	184	181	186
Australia . . . . .	28	37	37	39	43	28	29	41	45	53
Indonesia . . . . .	32	30	32	40	39	50	54	49	55	54
New Zealand . . . . .	16	12	13	24	14	21	15	24	14	23
Philippines . . . . .	54	32	49	36	53	72	72	67	66	54
Pacific/Australasia. other . . . . .	0	2	1	1	1	0	2	3	1	2
Africa. total . . . . .	333	301	312	306	352	345	372	353	415	302
Egypt . . . . .	48	58	68	60	78	55	55	40	41	31
Nigeria . . . . .	66	73	66	48	60	63	57	43	54	39
Africa. other . . . . .	219	170	178	198	214	227	260	270	320	232
Country unknown . . . . .	317	374	444	396	131	116	88	92	43	46

See explanatory information, if any, and SOURCE at end of table

**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Permanent visas. S&E										
Total foreign citizenship .....	994	1,089	1,130	1,124	1,197	1,285	1,382	1,641	3,022	3,501
North America, total .....	81	62	87	88	99	126	118	120	119	133
Canada .....	49	40	53	55	55	75	76	71	58	77
Caribbean .....	14	6	15	8	16	19	16	15	28	25
Central America .....	7	6	4	9	11	11	8	6	14	8
Mexico .....	11	10	15	16	17	21	18	28	19	23
South America, total .....	48	44	48	41	67	62	74	63	64	50
Argentina .....	6	4	8	4	11	16	17	17	13	9
Brazil .....	5	9	5	9	13	8	21	11	16	11
Chile .....	11	7	5	6	7	6	6	7	4	9
Colombia .....	4	5	14	7	11	11	9	5	13	6
South America, other .....	22	19	16	15	25	21	21	23	18	13
Europe, total .....	144	151	171	159	179	211	210	258	275	283
Belgium .....	6	2	4	3	6	8	8	8	4	7
England, United Kingdom .....	32	31	46	36	38	52	58	47	56	49
France .....	6	11	11	14	15	12	10	19	16	15
Germany .....	22	29	22	24	38	25	39	45	62	53
Europe, other .....	78	78	88	82	82	114	95	139	137	159
East Asia, total .....	244	260	250	264	323	407	485	663	2,001	2,484
Taiwan .....	144	150	136	142	147	160	172	155	178	165
China, People's Republic of .....	7	22	26	36	54	100	162	352	1,642	2,167
Hong Kong .....	14	19	15	15	12	16	28	20	20	15
Japan .....	11	10	10	13	23	20	18	20	30	19
Korea .....	46	36	49	52	70	91	82	91	99	86
Thailand .....	11	13	5	4	2	8	9	11	11	10
East Asia, other .....	11	10	9	2	15	12	14	14	21	22
West Asia, total .....	227	262	244	279	346	287	340	359	375	380
India .....	70	87	84	94	119	108	148	142	173	166
Iran .....	77	79	77	93	125	83	82	100	65	84
Iraq .....	2	8	8	2	3	3	8	4	7	5
Israel .....	16	20	16	20	11	18	15	22	41	20
Lebanon .....	8	15	10	14	18	10	6	11	12	11
Saudi Arabia .....	4	3	4	6	6	2	7	4	7	4
Turkey .....	21	12	15	11	17	11	20	18	15	20
West Asia, other .....	29	38	30	39	47	52	54	58	55	70
Pacific/Australasia, total .....	21	27	29	19	25	34	23	35	40	43
Australia .....	12	13	11	8	12	9	9	10	13	10
Indonesia .....	1	5	5	5	3	9	5	6	13	16
New Zealand .....	1	4	6	1	4	5	1	4	5	3
Philippines .....	7	4	7	5	6	11	7	14	8	13
Pacific/Australasia, other .....	0	1	0	0	0	0	1	1	1	1
Africa, total .....	63	69	81	80	92	103	95	100	123	93
Egypt .....	13	9	18	13	14	13	9	9	12	13
Nigeria .....	20	26	25	20	30	35	34	30	33	32
Africa, other .....	30	34	38	47	48	55	52	61	78	48
Country unknown .....	166	214	220	194	66	55	37	43	25	35

See explanatory information, if any, and SOURCE at end of table

**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Permanent visas, engineering										
Total foreign citizenship . . . . .	343	355	366	365	389	388	411	469	838	954
North America, total . . . . .	6	8	16	12	20	17	13	16	14	23
Canada . . . . .	2	3	8	9	9	14	8	9	6	9
Caribbean . . . . .	1	1	1	0	4	0	2	2	4	3
Central America . . . . .	2	1	2	0	3	2	2	1	2	4
Mexico . . . . .	1	3	5	3	4	1	1	4	2	7
South America, total . . . . .	8	11	12	7	12	12	14	8	13	7
Argentina . . . . .	0	1	0	0	2	5	4	2	1	1
Brazil . . . . .	2	5	0	1	2	2	2	1	2	2
Chile . . . . .	1	2	1	1	0	0	1	0	1	1
Colombia . . . . .	0	0	5	2	1	1	2	1	4	1
South America, other . . . . .	5	3	6	3	7	4	5	4	5	2
Europe, total . . . . .	39	32	28	30	31	33	33	42	49	68
Belgium . . . . .	2	0	2	0	1	1	2	2	1	1
England, United Kingdom . . . . .	3	4	5	5	5	3	8	4	7	9
France . . . . .	2	3	2	2	6	4	3	4	5	3
Germany . . . . .	5	2	1	3	4	0	5	3	11	8
Europe, other . . . . .	27	23	18	20	15	25	15	29	25	47
East Asia, total . . . . .	116	115	112	105	128	166	163	221	576	694
Taiwan . . . . .	78	76	71	67	69	88	80	73	89	76
China, People's Republic of . . . . .	2	9	10	9	19	25	39	88	426	564
Hong Kong . . . . .	6	9	5	5	5	7	10	10	7	5
Japan . . . . .	4	2	2	1	1	5	3	2	5	2
Korea . . . . .	19	14	22	22	30	36	25	43	42	34
Thailand . . . . .	3	1	0	0	0	1	2	1	1	4
East Asia, other . . . . .	4	4	2	1	4	4	4	4	6	9
West Asia, total . . . . .	93	98	105	122	150	118	144	151	140	119
India . . . . .	29	29	36	35	42	44	57	56	61	55
Iran . . . . .	33	40	39	55	61	42	44	43	28	29
Iraq . . . . .	0	1	3	1	1	0	2	2	5	3
Israel . . . . .	6	4	6	2	3	4	5	6	6	0
Lebanon . . . . .	3	10	7	7	13	4	4	6	5	3
Saudi Arabia . . . . .	2	0	0	1	2	0	1	2	3	3
Turkey . . . . .	11	7	8	5	10	5	10	6	6	7
West Asia, other . . . . .	9	7	6	16	18	19	21	30	26	19
Pacific/Australasia, total . . . . .	3	6	6	3	5	5	7	6	12	9
Australia . . . . .	2	3	1	0	0	2	4	1	4	0
Indonesia . . . . .	0	2	3	2	3	3	2	4	7	7
New Zealand . . . . .	0	1	2	0	1	0	0	0	1	0
Philippines . . . . .	1	0	0	1	1	0	0	1	0	2
Pacific/Australasia, other . . . . .	0	0	0	0	0	0	1	0	0	0
Africa, total . . . . .	19	12	17	17	21	25	23	14	28	28
Egypt . . . . .	7	2	4	4	7	4	3	3	4	9
Nigeria . . . . .	5	5	7	3	5	9	6	3	2	10
Africa, other . . . . .	7	5	6	10	9	12	14	8	22	9
Country unknown . . . . .	59	73	70	69	22	12	14	11	6	6

See explanatory information, if any, and SOURCE at end of table

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**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Permanent visas, sciences										
Total foreign citizenship	651	734	764	759	808	897	971	1,172	2,184	2,547
North America, total	75	54	71	76	79	109	105	104	105	110
Canada	47	37	45	46	48	61	68	62	52	68
Caribbean	13	5	14	8	12	19	14	13	24	22
Central America	5	5	2	9	8	9	6	5	12	4
Mexico	10	7	10	13	13	20	17	24	17	16
South America, total	40	33	36	34	55	50	60	55	51	43
Argentina	6	3	8	4	9	11	13	15	12	8
Brazil	3	4	5	8	11	6	19	10	14	9
Chile	10	5	4	5	7	6	5	7	3	8
Colombia	4	5	9	5	10	10	7	4	9	7
South America, other	17	16	10	12	18	17	16	19	13	11
Europe total	105	119	143	129	148	178	177	216	226	215
Belgium	4	2	2	3	5	7	6	6	3	6
England, United Kingdom	29	27	41	31	33	49	50	43	49	40
France	4	8	9	12	9	8	7	15	11	12
Germany	17	27	21	21	34	25	34	42	51	45
Europe, other	51	55	70	62	67	89	80	110	112	112
East Asia, total	128	145	138	159	195	241	322	442	1,425	1,790
Taiwan	66	74	65	75	78	72	92	82	89	89
China People's Republic of	5	13	16	27	35	75	123	264	1,216	1,603
Hong Kong	8	10	10	10	7	9	18	10	13	10
Japan	7	8	8	12	22	15	15	18	25	17
Korea	27	22	27	30	40	55	57	48	57	52
Thailand	8	12	5	4	2	7	7	10	10	6
East Asia, other	7	6	7	1	11	8	10	10	15	13
West Asia, total	134	164	139	157	196	169	196	208	235	261
India	41	58	48	59	77	64	91	86	112	111
Iran	44	39	38	38	64	41	38	57	37	55
Iraq	2	7	5	1	2	3	6	2	2	2
Israel	10	16	10	13	8	14	10	16	35	20
Lebanon	5	5	3	7	5	6	2	5	7	8
Saudi Arabia	2	3	4	5	4	2	6	2	4	1
Turkey	10	5	7	6	7	6	10	12	9	13
West Asia, other	20	31	24	23	29	33	33	28	29	51
Pacific Australasia, total	18	21	23	16	20	29	16	29	28	34
Australia	10	10	10	8	12	7	5	9	9	10
Indonesia	1	3	2	3	0	6	3	2	6	9
New Zealand	1	3	4	1	3	5	1	4	4	3
Philippines	6	4	7	4	5	11	7	13	8	11
Pacific/Australasia, other	0	1	0	0	0	0	0	1	1	1
Africa, total	44	57	64	63	71	78	72	86	95	65
Egypt	6	7	14	9	7	9	6	6	8	4
Nigeria	15	21	18	17	25	26	28	27	31	22
Africa, other	23	29	32	37	39	43	38	53	56	39
Country unknown	107	141	150	125	44	43	23	32	19	29

See explanatory information if any, and SOURCE at end of table

**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Temporary visas, S&E										
Total foreign citizenship . . . . .	4,160	4,468	4,936	5,391	6,571	7,642	8,092	8,113	7,521	6,992
North America, total . . . . .	248	256	268	315	347	399	397	386	428	372
Canada . . . . .	129	141	150	165	198	222	228	214	217	197
Caribbean . . . . .	15	17	13	21	20	35	28	23	33	34
Central America . . . . .	18	22	28	25	42	35	44	38	55	35
Mexico . . . . .	86	76	77	104	87	107	97	111	123	106
South America, total . . . . .	253	267	246	256	276	325	320	331	344	308
Argentina . . . . .	34	24	30	39	54	46	69	36	43	40
Brazil . . . . .	92	103	89	91	87	111	112	140	141	126
Chile . . . . .	33	38	40	41	43	48	42	45	38	29
Colombia . . . . .	20	22	32	20	29	38	28	30	35	37
South America other . . . . .	74	80	55	65	63	82	69	80	87	76
Europe, total . . . . .	419	474	520	550	622	761	740	846	875	970
Belgium . . . . .	14	14	17	12	25	35	34	16	17	25
England, United Kingdom . . . . .	46	65	70	60	52	80	79	107	72	83
France . . . . .	28	37	42	37	50	55	67	74	80	68
Germany . . . . .	40	45	56	78	85	93	85	119	134	155
Europe, other . . . . .	291	313	335	363	400	498	475	530	572	639
East Asia, total . . . . .	1,426	1,710	1,992	2,299	3,281	4,080	4,379	4,347	3,483	2,999
Taiwan . . . . .	565	640	650	715	865	967	1,070	1,058	1,123	1,074
China, People's Republic of . . . . .	191	271	454	584	1,096	1,693	1,883	1,875	889	584
Hong Kong . . . . .	59	68	66	78	82	105	81	89	75	75
Japan . . . . .	100	73	94	93	124	105	114	112	152	135
Korea . . . . .	356	513	572	701	909	1,023	1,044	1,032	1,051	918
Thailand . . . . .	98	82	93	72	109	85	78	66	86	103
East Asia, other . . . . .	57	63	63	56	96	102	109	115	107	110
West Asia, total . . . . .	981	969	989	1,029	1,308	1,383	1,551	1,544	1,702	1,797
India . . . . .	399	416	436	442	592	644	713	791	892	1,038
Iran . . . . .	137	103	96	105	133	144	113	103	109	89
Iraq . . . . .	25	36	28	22	24	21	26	13	15	9
Israel . . . . .	66	47	50	49	68	71	72	67	68	65
Lebanon . . . . .	21	28	29	37	27	45	56	39	61	45
Saudi Arabia . . . . .	45	47	48	55	57	65	69	42	69	67
Turkey . . . . .	63	74	66	67	89	89	112	118	129	146
West Asia, other . . . . .	225	218	236	252	318	304	385	371	359	338
Pacific Australasia total . . . . .	130	110	127	147	150	182	197	192	191	187
Australia . . . . .	22	29	28	33	34	26	31	37	43	50
Indonesia . . . . .	40	38	38	47	50	60	73	72	70	67
New Zealand . . . . .	16	10	11	26	12	18	15	20	10	23
Philippines . . . . .	52	32	49	40	53	78	76	60	67	46
Pacific Australasia, other . . . . .	0	1	1	1	1	0	2	3	1	1
Africa, total . . . . .	388	339	369	366	447	397	415	374	460	331
Egypt . . . . .	88	89	97	96	146	99	92	79	92	66
Nigeria . . . . .	61	63	62	39	53	48	34	25	27	21
Africa, other . . . . .	239	187	210	231	248	250	289	270	341	244
Country unknown . . . . .	315	343	425	429	140	115	93	93	38	28

See explanatory information, if any, and SOURCE at end of table.

**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Temporary visas, engineering										
Total foreign citizenship .....	1,372	1,532	1,721	1,940	2,277	2,634	2,743	2,784	2,653	2,523
North America, total .....	43	54	47	64	64	67	60	66	76	59
Canada .....	16	26	20	29	32	40	38	33	30	32
Caribbean .....	5	5	1	5	3	3	3	2	10	4
Central America .....	3	5	4	5	8	3	4	8	8	4
Mexico .....	19	18	22	25	21	21	15	23	28	19
South America, total .....	55	68	57	66	72	74	73	89	98	81
Argentina .....	10	8	6	6	10	7	10	8	6	6
Brazil .....	15	33	25	29	29	32	29	45	47	44
Chile .....	7	8	8	8	11	8	9	5	7	7
Colombia .....	4	7	4	3	7	10	7	7	8	9
South America, other .....	19	12	14	20	15	17	18	24	30	15
Europe, total .....	109	120	143	168	174	167	169	202	208	229
Belgium .....	2	6	4	5	11	8	8	5	6	11
England, United Kingdom .....	9	5	6	9	9	11	9	14	7	11
France .....	11	13	20	16	21	15	22	28	27	21
Germany .....	5	5	10	14	11	8	13	20	18	29
Europe, other .....	82	91	103	124	122	125	117	135	150	157
East Asia, total .....	566	688	777	883	1,138	1,464	1,538	1,512	1,311	1,173
Taiwan .....	273	321	329	360	407	509	557	519	581	540
China, People's Republic of .....	54	77	122	150	309	452	469	455	230	207
Hong Kong .....	21	13	28	33	25	23	27	22	7	15
Japan .....	24	13	22	18	16	24	22	21	41	28
Korea .....	156	224	235	286	330	399	412	441	387	310
Thailand .....	23	19	24	16	21	19	19	17	33	34
East Asia, other .....	15	21	17	20	30	38	32	37	32	39
West Asia, total .....	377	379	427	455	590	650	719	738	768	841
India .....	175	175	219	216	272	313	348	392	419	517
Iran .....	67	48	42	55	78	81	66	52	64	56
Iraq .....	4	9	5	8	13	11	12	4	4	5
Israel .....	20	16	19	17	19	23	21	17	11	19
Lebanon .....	8	17	11	18	22	34	33	21	40	28
Saudi Arabia .....	12	16	14	25	20	26	30	17	25	22
Turkey .....	38	36	34	47	49	59	71	68	58	65
West Asia, other .....	53	62	83	69	117	103	138	167	147	129
Pacific/Australasia, total .....	18	18	18	23	20	40	41	37	38	35
Australia .....	4	2	1	2	3	5	7	5	7	7
Indonesia .....	9	11	8	10	11	16	22	25	21	22
New Zealand .....	1	1	2	3	1	2	1	0	0	3
Philippines .....	4	4	7	8	5	17	11	6	9	3
Pacific Australasia, other .....	0	0	0	0	0	0	0	1	1	0
Africa, total .....	99	95	121	123	166	130	115	107	140	94
Egypt .....	46	38	43	45	75	53	43	45	59	39
Nigeria .....	10	11	14	8	18	11	5	9	4	4
Africa, other .....	43	46	64	70	73	66	67	53	77	51
Country unknown .....	105	110	131	158	53	42	28	33	14	11

See explanatory information if any, and SOURCE at end of table

**Table 5. Non-U.S. citizens awarded science and engineering (S&E) doctorates,  
by country of citizenship, visa type, and year of doctorate: 1986-95**

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Country of citizenship	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Temporary visas, sciences										
Total foreign citizenship .....	2,788	2,936	3,215	3,451	4,294	5,008	5,349	5,329	4,868	4,469
North America, total .....	205	202	221	251	283	332	337	320	352	313
Canada .....	113	115	130	136	166	182	190	181	187	165
Caribbean .....	10	12	12	16	17	32	25	21	23	30
Central America .....	15	17	24	20	34	32	40	30	47	31
Mexico .....	67	58	55	79	66	86	82	88	95	87
South America, total .....	198	199	189	190	204	251	247	242	246	227
Argentina .....	24	16	24	33	44	39	59	28	37	34
Brazil .....	77	70	64	62	58	79	83	95	94	82
Chile .....	26	30	32	33	32	49	33	40	31	22
Colombia .....	16	15	28	17	22	28	21	23	27	28
South America, other .....	55	68	41	45	48	65	51	56	57	61
Europe, total .....	310	354	377	382	448	594	571	644	667	741
Belgium .....	12	8	13	7	14	27	26	11	11	14
England, United Kingdom .....	37	60	64	51	53	69	70	93	65	72
France .....	17	24	22	21	29	40	45	46	53	47
Germany .....	35	40	46	64	74	85	72	99	116	126
Europe, other .....	209	222	232	239	278	373	358	395	422	482
East Asia, total .....	860	1,022	1,215	1,416	2,143	2,616	2,841	2,835	2,172	1,826
Taiwan .....	292	319	321	355	458	458	513	539	542	534
China, People's Republic of .....	137	194	332	434	787	1,241	1,414	1,420	659	377
Hong Kong .....	38	55	38	45	57	82	54	67	68	60
Japan .....	76	60	72	75	108	81	92	91	111	107
Korea .....	200	289	337	415	579	624	632	591	664	608
Thailand .....	75	63	69	56	88	66	59	49	53	69
East Asia, other .....	42	42	46	36	66	64	77	78	75	71
West Asia, total .....	604	590	562	574	718	733	832	806	934	956
India .....	224	241	217	226	320	331	365	399	473	521
Iran .....	70	55	54	50	55	63	52	51	45	33
Iraq .....	21	27	23	14	11	10	14	9	11	4
Israel .....	46	31	31	32	49	48	51	50	57	46
Lebanon .....	13	11	18	19	5	11	23	18	21	17
Saudi Arabia .....	33	31	34	30	37	39	39	25	44	45
Turkey .....	25	38	32	20	49	36	41	50	71	81
West Asia, other .....	172	156	153	183	201	201	247	204	212	209
Pacific/Australasia, total .....	112	92	109	124	130	142	156	155	153	152
Australia .....	18	27	27	31	31	21	24	32	36	43
Indonesia .....	31	27	30	37	39	44	51	47	49	45
New Zealand .....	15	9	9	23	11	16	14	20	10	20
Philippines .....	48	28	42	32	48	61	65	54	58	43
Pacific/Australasia, other .....	0	1	1	1	1	0	2	2	0	1
Africa, total .....	289	244	248	243	281	267	300	267	320	237
Egypt .....	42	51	54	51	71	46	49	34	33	27
Nigeria .....	51	52	48	31	35	37	29	16	23	17
Africa, other .....	196	141	146	161	175	184	222	217	264	193
Country unknown .....	210	233	294	271	87	73	65	60	24	17

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	S&E rank	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Total, all institutions .....	-	26,515	6,007	708	656	1,731	1,024	1,888	3,840	1,652	2,161	27
Alabama, total .....	30	253	55	2	4	7	12	30	29	15	14	0
Alabama A&M University .....	150	6	1	0	0	0	0	1	3	3	0	0
Auburn University .....	71	101	22	1	3	2	4	12	9	5	4	0
United States Sports Academy .....	156	0	0	0	0	0	0	0	0	0	0	0
University of Alabama .....	105	53	10	1	1	2	0	6	10	0	10	0
University of Alabama Birmingham .....	98	61	5	0	0	0	0	5	1	1	0	0
University of Alabama Huntsville .....	132	24	17	0	0	3	8	6	6	6	0	0
University of South Alabama .....	148	8	0	0	0	0	0	0	0	0	0	0
Alaska, total .....	51	19	2	0	0	0	0	2	2	2	0	0
University of Alaska Fairbanks .....	137	19	2	0	0	0	0	2	2	2	0	0
Arizona, total .....	20	455	107	3	17	28	18	41	72	39	29	4
Arizona State University Main .....	43	168	51	0	7	13	8	23	17	9	8	0
Northern Arizona University .....	142	14	0	0	0	0	0	0	0	0	0	0
University of Arizona .....	24	273	56	3	10	15	10	18	55	30	21	4
Arkansas, total .....	42	69	14	3	1	4	0	6	14	6	6	0
U of Arkansas Little Rock .....	152	4	4	0	0	0	0	4	0	0	0	0
U of Arkansas Med Sci .....	142	14	0	0	0	0	0	0	0	0	0	0
U of Arkansas .....	107	51	10	3	1	4	0	2	14	6	8	0
California, total .....	1	3,653	791	66	76	303	134	212	503	235	261	7
Biola University .....	145	11	0	0	0	0	0	0	0	0	0	0
CA Inst Integral Studies .....	136	20	0	0	0	0	0	0	0	0	0	0
CA Inst Technology .....	44	166	47	11	1	14	14	7	72	35	34	3
CA Sch Prof Psych Fresno .....	113	45	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych Los Angeles .....	92	71	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych San Diego .....	86	80	0	0	0	0	0	0	0	0	0	0
CA Sch Prof Psych Berkeley .....	97	63	0	0	0	0	0	0	0	0	0	0
Claremont Graduate School .....	124	33	1	0	0	0	1	0	0	0	0	0
Fielding Institute .....	118	40	0	0	0	0	0	0	0	0	0	0
Fuller Theological Seminary CA .....	117	41	0	0	0	0	0	0	0	0	0	0
Golden Gate Baptist Seminary .....	156	0	0	0	0	0	0	0	0	0	0	0
Graduate Theological Union .....	156	0	0	0	0	0	0	0	0	0	0	0
Hebrew Union Col CA Branch .....	156	0	0	0	0	0	0	0	0	0	0	0
Loma Linda U La Sierra Campus .....	156	0	0	0	0	0	0	0	0	0	0	0
Loma Linda University .....	145	11	0	0	0	0	0	0	0	0	0	0
Naval Postgraduate School .....	149	7	2	0	0	0	1	1	0	0	0	0
Pacific Grad School of Psych .....	118	40	0	0	0	0	0	0	0	0	0	0
Pepperdine University .....	156	0	0	0	0	0	0	0	0	0	0	0
Rand Grad Sch of Policy Studies .....	144	12	0	0	0	0	0	0	0	0	0	0
Research Inst of Scripps Clinic .....	150	6	0	0	0	0	0	0	1	0	1	0
San Diego State University .....	140	16	0	0	0	0	0	0	2	0	2	0
Santa Clara University .....	153	3	3	0	0	0	3	0	0	0	0	0
Saybrook Institute .....	140	16	0	0	0	0	0	0	0	0	0	0
School of Theology at Claremont .....	156	0	0	0	0	0	0	0	0	0	0	0
Stanford University .....	6	466	207	14	14	70	48	61	70	37	33	0
United States International U .....	100	59	0	0	0	0	0	0	0	0	0	0
University of the Pacific .....	154	2	0	0	0	0	0	0	2	0	2	0
U of California Berkeley .....	1	608	178	15	29	57	32	45	76	34	42	0
U of California Davis .....	19	302	47	3	9	8	9	18	44	13	30	1
U of California Irvine .....	53	146	29	5	7	7	5	5	30	14	16	0
U of California Los Angeles .....	9	435	85	4	12	35	8	26	67	34	33	0
U of California Riverside .....	79	89	0	0	0	0	0	0	8	4	4	0
U of California San Diego .....	31	227	35	1	0	17	5	12	39	24	14	1
U of California San Francisco .....	92	71	6	0	0	0	0	6	12	0	12	0
U of California Santa Barbara .....	52	147	44	5	0	19	10	10	30	18	12	0
U of California Santa Cruz .....	84	83	7	0	0	7	0	0	22	10	10	2
University of La Verne .....	149	7	0	0	0	0	0	0	0	0	0	0
University of San Diego .....	156	0	0	0	0	0	0	0	0	0	0	0
University of San Francisco .....	156	0	0	0	0	0	0	0	0	0	0	0
University of Southern CA .....	18	308	100	8	4	64	2	22	28	12	16	0
Wright Institute, All Campuses .....	134	22	0	0	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	Earth, atmos., ocean	Mathe- matics	Com- puter scien- ces	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E total	Grand total. all fields
				Total	Bio- logical	Agri- cul- tural				
Total, all institutions .....	778	1,190	998	6,406	5,370	1,036	3,419	3,877	15,095	41,610
Alabama, total .....	1	11	2	98	72	26	31	26	187	440
Alabama A&M University .....	0	0	0	2	0	2	0	0	0	6
Auburn University .....	0	6	1	38	14	24	16	9	36	137
United States Sports Academy .....	0	0	0	0	0	0	0	0	2	2
University of Alabama .....	0	4	0	4	4	0	8	17	109	162
University of Alabama Birmingham .....	1	0	1	46	46	0	7	0	40	101
University of Alabama Huntsville .....	0	1	0	0	0	0	0	0	0	24
University of South Alabama .....	0	0	0	8	8	0	0	0	0	8
Alaska, total .....	4	1	0	7	5	2	1	2	0	19
University of Alaska Fairbanks .....	4	1	0	7	5	2	1	2	0	19
Arizona, total .....	30	30	17	92	76	16	44	63	327	782
Arizona State University Main .....	9	5	10	24	24	0	26	26	134	302
Northern Arizona University .....	0	0	0	4	4	0	0	10	72	86
University of Arizona .....	21	25	7	64	48	16	18	27	121	394
Arkansas, total .....	0	1	1	33	19	14	5	1	87	156
U of Arkansas Little Rock .....	0	0	0	0	0	0	0	0	6	10
U of Arkansas Med Sci .....	0	0	0	14	14	0	0	0	0	14
U of Arkansas .....	0	1	1	19	5	14	5	1	81	132
California, total .....	102	175	128	704	668	36	699	551	1,362	5,015
Biola University .....	0	0	0	0	0	0	11	0	5	16
CA Inst Integral Studies .....	0	0	0	0	0	0	0	0	3	23
CA Inst Technology .....	8	11	7	14	14	0	0	7	0	166
CA Sch Prof Psych Fresno .....	0	0	0	0	0	0	45	0	0	45
CA Sch Prof Psych Los Angeles .....	0	0	0	0	0	0	71	0	0	71
CA Sch Prof Psych San Diego .....	0	0	0	0	0	0	80	0	0	80
CA Sch Prof Psych Berkeley .....	0	0	0	0	0	0	63	0	1	64
Claremont Graduate School .....	0	6	5	1	1	0	10	10	45	78
Fielding Institute .....	0	0	0	0	0	0	40	0	5	45
Fuller Theological Seminary CA .....	0	0	0	0	0	0	41	0	12	53
Golden Gate Baptist Seminary .....	0	0	0	0	0	0	0	0	2	2
Graduate Theological Union .....	0	0	0	0	0	0	0	0	25	25
Hebrew Union Col CA Branch .....	0	0	0	0	0	0	0	0	1	1
Loma Linda U La Sierra Campus .....	0	0	0	0	0	0	0	0	6	6
Loma Linda University .....	0	0	0	11	11	0	0	0	7	18
Naval Postgraduate School .....	1	1	3	0	0	0	0	0	0	40
Pacific Grad School of Psych .....	0	0	0	0	0	0	40	0	22	22
Pepperdine University .....	0	0	0	0	0	0	0	0	0	17
Rand Grad Sch of Policy Studies .....	0	0	0	0	0	0	0	12	0	12
Research Inst of Scripps Clinic .....	0	0	0	5	5	0	0	0	0	6
San Diego State University .....	0	0	0	4	4	0	10	0	5	21
Santa Clara University .....	0	0	0	0	0	0	0	1	0	3
Saybrook Institute .....	0	0	0	0	0	0	15	1	1	17
School of Theology at Claremont .....	0	0	0	0	0	0	0	0	4	4
Stanford University .....	13	33	21	47	46	1	12	63	117	583
United States International U .....	0	0	0	0	0	0	59	0	27	86
University of the Pacific .....	0	0	0	0	0	0	0	0	13	15
U of California Berkeley .....	17	52	22	115	104	11	25	123	219	827
U of California Davis .....	9	8	3	150	134	16	8	33	35	337
U of California Irvine .....	0	4	11	44	44	0	5	23	42	188
U of California Los Angeles .....	19	24	18	87	87	0	40	95	228	663
U of California Riverside .....	0	3	0	35	27	8	12	31	43	132
U of California San Diego .....	14	12	15	70	70	0	12	30	30	257
U of California San Francisco .....	0	0	0	42	42	0	2	9	15	86
U of California Santa Barbara .....	7	5	6	17	17	0	14	24	54	201
U of California Santa Cruz .....	9	4	4	11	11	0	9	17	17	100
University of La Verne .....	0	0	0	0	0	0	0	0	7	56
University of San Diego .....	0	0	0	0	0	0	0	0	0	23
University of San Francisco .....	0	0	0	0	0	0	0	0	73	73
University of Southern CA .....	5	12	13	51	51	0	33	66	233	541
Wright Institute All Campuses .....	0	0	0	0	0	0	22	0	0	22

See explanatory information, if any, and SOURCE at end of table

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	S&E rank	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Colorado, total	16	530	144	14	31	37	10	52	59	22	36	1
Colorado School of Mines	115	43	20	2	0	0	0	18	4	3	1	0
Colorado State University	41	173	33	3	18	3	3	6	20	2	18	0
University of Colorado Boulder	25	267	90	9	13	34	7	27	30	17	12	1
University of Denver	119	39	1	0	0	0	0	1	5	0	5	0
University of Northern Colorado	148	8	0	0	0	0	0	0	0	0	0	0
Connecticut, total	23	407	44	7	2	9	19	7	77	27	50	0
University of Connecticut	45	164	25	3	2	5	9	6	22	3	19	0
University of Hartford	156	0	0	0	0	0	0	0	0	0	0	0
Wesleyan University	135	21	0	0	0	0	0	0	4	1	3	0
Yale University	32	222	19	4	0	4	10	1	51	23	28	0
Delaware, total	39	100	31	15	6	6	2	2	14	8	6	0
University of Delaware	72	100	31	15	6	6	2	2	14	8	6	0
Wilmington College	156	0	0	0	0	0	0	0	0	0	0	0
District of Columbia, total	27	283	30	0	1	6	6	17	36	17	13	0
American University	104	54	0	0	0	0	0	0	8	5	0	0
Catholic University of America	124	33	5	0	0	0	1	2	10	9	1	0
Gallaudet University	156	0	0	0	0	0	0	0	0	0	0	0
George Washington University	73	99	24	0	1	4	4	15	4	2	2	0
Georgetown University	110	48	0	0	0	0	0	0	5	0	5	0
Howard University	109	49	1	0	0	0	1	0	9	1	8	0
Florida, total	11	670	142	3	14	55	26	44	83	32	51	0
Barry University	156	0	0	0	0	0	0	0	0	0	0	0
Caribbean Ctr Advanced Studies	150	6	0	0	0	0	0	0	0	0	0	0
Florida Atlantic University	138	18	6	0	0	1	3	2	0	0	0	0
Florida Institute of Technology	141	15	6	0	0	5	1	0	2	2	0	0
Florida International University	138	18	3	0	0	3	0	0	0	0	0	0
Florida State University	67	111	4	0	0	0	3	1	22	13	9	0
Nova Southeastern University	122	35	0	0	0	0	0	0	0	0	0	0
University of Central Florida	120	38	22	0	2	12	4	4	4	4	0	0
University of Florida	21	289	85	3	11	25	14	32	44	12	32	0
University of Miami	80	87	6	0	0	2	1	3	6	0	6	0
University of South Florida	105	53	10	0	1	7	0	2	5	1	4	0
Georgia, total	17	496	120	7	16	39	22	36	76	21	55	0
Clark Atlanta University	142	14	0	0	0	0	0	0	2	0	2	0
Emory University	84	83	0	0	0	0	0	0	23	1	22	0
Georgia Inst of Tech	38	180	118	5	16	39	22	36	22	9	13	0
Georgia State University	113	45	0	0	0	0	0	0	6	4	2	0
Inst of Paper Science & Tech	151	5	2	2	0	0	0	0	0	0	0	0
Medical College of Georgia	147	9	0	0	0	0	0	0	0	0	0	0
Mercer U Southern Col Pharm	156	0	0	0	0	0	0	0	0	0	0	0
University of Georgia	46	160	0	0	0	0	0	0	23	7	16	0
Hawaii, total	38	125	11	0	0	8	1	2	9	3	6	0
University of Hawaii at Manoa	63	125	11	0	0	8	1	2	9	3	6	0
Idaho, total	43	57	7	1	0	1	3	2	1	0	1	0
Idaho State University	144	12	0	0	0	0	0	0	0	0	0	0
University of Idaho	113	45	7	1	0	1	3	2	1	0	1	0
Illinois, total	5	1,412	299	25	38	71	57	108	208	98	110	0
De Paul University	145	11	0	0	0	0	0	0	0	0	0	0
Finch U Hlth Sci/Chgo Med Sch	142	14	0	0	0	0	0	0	0	0	0	0
Illinois Institute of Technology	89	74	26	8	2	10	3	3	2	1	1	0
Illinois State University	152	4	0	0	0	0	0	0	0	0	0	0
Loyola University of Chicago	107	51	0	0	0	0	0	0	3	0	3	0
Lutheran Sch Theology at Chicago	156	0	0	0	0	0	0	0	0	0	0	0
Northern Illinois University	118	40	0	0	0	0	0	0	5	0	5	0
Northwestern Univ	27	252	75	6	6	12	8	43	41	12	29	0
Roosevelt University	156	0	0	0	0	0	0	0	0	0	0	0
Rush University	147	9	0	0	0	0	0	0	1	1	0	0
Southern Illinois U Edwardsville	156	0	0	0	0	0	0	0	0	0	0	0
Southern Illinois U Carbondale	108	50	6	0	0	1	0	5	6	2	4	0
University of Chicago	30	241	1	1	0	0	0	0	55	33	22	0
U of Illinois Chicago	52	147	34	0	6	7	16	5	16	4	12	0
U of Illinois Urbana-Champaign	3	519	157	10	24	41	30	52	79	45	34	0

See explanatory information, if any, and SOURCE at end of table

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	Earth, atmos, ocean	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agri- cul- tural				
Colorado, total	36	22	18	128	90	38	57	66	203	733
Colorado School of Mines	8	8	0	0	0	0	0	3	0	43
Colorado State University	11	4	5	68	30	38	16	16	35	208
University of Colorado Boulder	16	8	12	55	55	0	17	39	77	344
University of Denver	1	0	1	5	5	0	18	8	43	82
University of Northern Colorado	0	2	0	0	0	0	6	0	48	56
Connecticut, total	4	23	16	119	113	6	33	91	247	654
University of Connecticut	1	8	6	49	48	1	23	30	100	264
University of Hartford	0	0	0	0	0	0	0	0	3	3
Wesleyan University	0	5	0	11	11	0	0	1	1	22
Yale University	3	10	10	59	54	5	10	60	143	365
Delaware, total	10	4	4	13	10	3	15	9	55	155
University of Delaware	10	4	4	13	10	3	15	9	39	139
Wilmington College	0	0	0	0	0	0	0	0	16	16
District of Columbia, total	1	6	6	55	55	0	44	105	187	470
American University	0	1	0	1	1	0	12	32	10	64
Catholic University of America	0	0	0	1	1	0	7	10	66	99
Gallaudet University	0	0	0	0	0	0	0	0	9	9
George Washington University	1	4	6	24	24	0	8	28	57	156
Georgetown University	0	0	0	21	21	0	0	22	10	58
Howard University	0	1	0	8	8	0	17	13	35	84
Florida, total	22	26	45	133	116	17	134	85	782	1,452
Barry University	0	0	0	0	0	0	0	0	9	9
Caribbean Ctr Advanced Studies	0	0	0	0	0	0	0	6	0	6
Florida Atlantic University	0	0	3	0	0	0	2	7	19	37
Florida Institute of Technology	0	3	3	1	1	0	0	0	2	17
Florida International University	1	0	2	1	1	0	7	4	26	44
Florida State University	8	8	6	17	17	0	24	22	184	295
Nova Southeastern University	0	0	11	0	0	0	19	5	299	334
University of Central Florida	0	0	9	0	0	0	3	0	28	66
University of Florida	6	10	6	65	48	17	34	39	111	400
University of Miami	3	2	0	37	37	0	29	4	54	141
University of South Florida	4	3	5	12	12	0	10	4	50	103
Georgia, total	14	15	11	124	97	27	82	54	356	852
Clark Atlanta University	0	0	0	3	3	0	4	5	12	26
Emory University	0	3	0	25	25	0	11	21	69	152
Georgia Inst of Tech	12	6	10	4	4	0	8	0	9	189
Georgia State University	0	0	1	11	11	0	20	7	81	126
Inst of Paper Science & Tech	0	0	0	3	0	3	0	0	0	5
Medical College of Georgia	0	0	0	9	9	0	0	0	2	11
Mercer U Southern Col Pharm	0	0	0	0	0	0	0	0	1	1
University of Georgia	2	6	0	69	45	24	39	21	182	342
Hawaii, total	12	0	5	37	26	11	2	49	30	155
University of Hawaii at Manoa	12	0	5	37	26	11	2	49	30	155
Idaho, total	3	8	0	32	12	20	0	6	23	80
Idaho State University	0	5	0	5	5	0	0	2	2	14
University of Idaho	3	3	0	27	7	20	0	4	21	66
Illinois, total	20	75	89	296	249	47	165	260	931	2,343
De Paul University	0	0	0	0	0	0	11	0	2	13
Finch U Hlth Sci/Chgo Med Sch	0	0	0	9	9	0	5	0	0	14
Illinois Institute Technology	0	1	26	5	5	0	14	0	1	75
Illinois State University	0	2	0	0	0	0	0	2	54	58
Loyola University of Chicago	0	0	0	18	18	0	27	3	55	106
Lutheran Sch Theology at Chicago	0	0	0	0	0	0	0	0	7	7
Northern Illinois University	3	7	0	3	3	0	11	11	75	115
Northwestern Univ	2	17	9	52	52	0	21	35	122	374
Roosevelt University	0	0	0	0	0	0	0	0	14	14
Rush University	0	0	0	8	8	0	0	0	7	16
Southern Illinois U Edwardsville	0	0	0	0	0	0	0	0	9	9
Southern Illinois U Carbondale	0	2	0	8	7	1	18	10	117	167
University of Chicago	6	17	5	45	45	0	15	97	126	367
U of Illinois Chicago	0	7	13	36	36	0	16	25	100	247
U of Illinois Urbana-Champaign	9	22	36	112	66	46	27	77	242	761

See explanatory information, if any, and SOURCE at end of table

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	S&E rank	Total S&E	Engineering					Physical sciences				
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Indiana, total	10	690	177	31	24	49	25	48	146	59	86	1
Ball State University	144	12	0	0	0	0	0	0	0	0	0	0
Indiana State University	147	9	0	0	0	0	0	0	0	0	0	0
Indiana U at Bloomington	40	176	0	0	0	0	0	0	45	20	25	0
Indiana U Purdue U Indianapolis	156	0	0	0	0	0	0	0	0	0	0	0
Purdue University	14	399	140	21	20	37	22	40	82	26	55	1
University of Notre Dame	77	94	37	10	4	12	3	8	19	13	6	0
Iowa, total	21	444	119	9	16	25	27	42	57	20	37	0
Drake University	156	0	0	0	0	0	0	0	0	0	0	0
Iowa State University	26	260	80	4	10	20	20	26	39	13	26	0
Maharishi International U	150	b	0	0	0	0	0	0	1	1	0	0
University of Iowa	41	173	34	5	6	5	7	11	17	6	11	0
University of Northern Iowa	151	5	5	0	0	0	0	5	0	0	0	0
Kansas, total	29	260	51	3	6	16	5	21	38	12	26	0
Kansas State University	68	110	22	3	1	6	2	10	13	4	9	0
University of Kansas	60	132	14	0	5	4	1	4	25	8	17	0
Wichita State University	138	18	15	0	0	6	2	7	0	0	0	0
Kentucky, total	33	198	23	4	2	5	5	7	22	3	19	0
Southern Baptist Theological Sem	155	1	0	0	0	0	0	0	0	0	0	0
University of Kentucky	51	151	18	3	2	3	5	5	16	3	13	0
University of Louisville	112	46	5	1	0	2	0	2	6	0	6	0
Louisiana, total	26	300	50	15	11	11	4	9	33	8	25	0
Grambling State University	156	0	0	0	0	0	0	0	0	0	0	0
LA St U & A&M Col	56	140	20	9	5	2	1	3	23	7	16	0
LA St U Med Ctr Shreveport	142	14	0	0	0	0	0	0	0	0	0	0
LA St U Medical Center	134	22	0	0	0	0	3	0	0	0	0	0
Louisiana Tech University	151	5	5	0	2	1	0	2	0	0	0	0
New Orleans Baptist Theol Sem	154	2	0	0	0	0	0	0	0	0	0	0
Northeast Louisiana University	154	2	0	0	0	0	0	0	0	0	0	0
Southern U A&M Col Baton Rouge	156	0	0	0	0	0	0	0	0	0	0	0
Tulane University	93	69	18	6	4	1	3	4	6	1	5	0
University of New Orleans	136	20	0	0	0	0	0	0	4	0	4	0
U of Southwestern Louisiana	130	26	7	0	0	7	0	0	0	0	0	0
Maine, total	50	28	5	0	1	0	0	4	5	4	1	0
University of Maine	128	28	5	0	1	0	0	4	5	4	1	0
Maryland, total	15	604	147	17	12	61	27	30	74	39	33	2
Johns Hopkins University	37	185	36	11	7	7	4	7	23	11	10	2
Loyola College	147	9	0	0	0	0	0	0	0	0	0	0
Morgan State University	156	0	0	0	0	0	0	0	0	0	0	0
Peabody Inst of Johns Hopkins U	156	0	0	0	0	0	0	0	0	0	0	0
Uniformed Services U of Hlth Sci	143	13	0	0	0	0	0	0	0	0	0	0
U of Maryland Baltimore	123	34	0	0	0	0	0	0	3	0	3	0
U of Maryland College Park	16	320	104	6	5	50	20	23	43	27	16	0
U of Maryland Baltimore County	118	40	7	0	0	4	3	0	5	1	4	0
U of Maryland Eastern Shore	153	3	0	0	0	0	0	0	0	0	0	0
Massachusetts, total	4	1,445	367	54	27	104	57	125	266	143	121	2
American International College	156	0	0	0	0	0	0	0	0	0	0	0
Boston College	118	40	0	0	0	0	0	0	8	1	7	0
Boston University	49	156	23	0	0	8	1	14	25	19	6	0
Brandeis University	95	66	0	0	0	0	0	0	11	3	8	0
Clark University	137	19	0	0	0	0	0	0	4	2	2	0
Harvard University	20	297	10	0	0	1	1	8	49	29	20	0
MA Col Phar Allied Hlth	156	0	0	0	0	0	0	0	0	0	0	0
Massachusetts Institute of Tech	4	486	236	30	18	52	42	94	97	58	37	2
New England Conserv of Music	156	0	0	0	0	0	0	0	0	0	0	0
Northeastern University	89	74	17	1	1	9	3	3	15	9	6	0
Simmons College	156	0	0	0	0	0	0	0	0	0	0	0
Smith College	156	0	0	0	0	0	0	0	0	0	0	0
Springfield College	156	0	0	0	0	0	0	0	0	0	0	0
Tufts University	91	72	10	3	1	3	3	3	10	7	3	0
U of Massachusetts Amherst	42	171	47	12	5	23	6	1	29	8	21	0

See explanatory information, if any, and SOURCE at end of table

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	Earth, atmos, ocean	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
Indiana, total	14	28	16	127	108	19	72	110	416	1,106
Ball State University	0	0	0	0	0	0	10	2	32	44
Indiana State University	0	0	0	4	4	0	3	2	16	25
Indiana U at Bloomington	9	9	7	38	38	0	19	49	231	407
Indiana U Purdue U Indianapolis	0	0	0	0	0	0	0	0	5	5
Purdue University	4	16	9	79	60	19	31	38	108	507
University of Notre Dame	1	3	0	6	6	0	9	19	24	118
Iowa, total	8	31	13	128	96	32	34	54	235	679
Drake University	0	0	0	0	0	0	0	0	6	6
Iowa State University	3	10	7	77	45	32	16	28	58	318
Maharishi International U	0	0	0	1	1	0	4	0	1	7
University of Iowa	5	21	6	50	50	0	14	26	166	339
University of Northern Iowa	0	0	0	0	0	0	0	0	4	9
Kansas, total	6	10	3	95	65	30	38	19	187	447
Kansas State University	0	7	2	46	16	30	11	9	55	165
University of Kansas	6	2	1	49	49	0	25	10	128	260
Wichita State University	0	1	0	0	0	0	2	0	4	22
Kentucky, total	2	5	3	74	64	10	31	38	119	317
Southern Baptist Theological Sem	0	0	0	0	0	0	1	0	34	35
University of Kentucky	2	5	1	53	43	10	23	33	71	222
University of Louisville	0	0	2	21	21	0	7	5	14	60
Louisiana, total	8	12	28	101	77	24	32	36	204	504
Grambling State University	0	0	0	0	0	0	0	0	13	13
LA St U &A&M Col	7	7	12	43	20	23	19	9	82	222
LA St U Med Ctr Shreveport	0	0	0	14	14	0	0	0	0	14
LA St U Medical Center	0	0	0	22	22	0	0	0	11	33
Louisiana Tech University	0	0	0	0	0	0	0	0	13	18
New Orleans Baptist Theol Sem	0	0	0	0	0	0	2	0	35	37
Northeast Louisiana University	0	0	0	2	2	0	0	0	2	4
Southern U A&M Col Baton Rouge	0	0	0	0	0	0	0	0	1	1
Tulane University	1	0	6	17	16	1	8	13	26	95
University of New Orleans	0	0	0	0	0	0	3	13	16	36
U of Southwestern Louisiana	0	5	10	3	3	0	0	1	5	31
Maine, total	2	1	0	12	6	6	3	0	12	40
University of Maine	2	1	0	12	6	6	3	0	12	40
Maryland, total	20	21	32	169	157	12	54	87	281	885
Johns Hopkins University	6	2	4	77	77	0	3	34	86	271
Loyola College	0	0	0	0	0	0	9	0	0	9
Morgan State University	0	0	0	0	0	0	0	0	5	5
Peabody Inst of Johns Hopkins U	0	0	0	0	0	0	0	0	8	8
Uniformed Services U of Hlth Sci	0	0	0	9	9	0	4	0	1	14
U of Maryland Baltimore	0	0	0	31	31	0	0	0	23	57
U of Maryland College Park	11	19	21	42	30	12	30	50	156	476
U of Maryland Baltimore County	0	0	7	10	10	0	8	3	2	42
U of Maryland Eastern Shore	3	0	0	0	0	0	0	0	0	3
Massachusetts, total	38	56	51	306	295	11	87	274	751	2,196
American International College	0	0	0	0	0	0	0	0	10	10
Boston College	0	0	0	4	3	1	15	13	68	108
Boston University	4	3	2	43	43	0	12	44	138	294
Brandeis University	0	5	5	19	19	0	2	24	33	101
Clark University	1	0	0	2	2	0	6	6	2	21
Harvard University	3	13	6	124	124	0	10	82	267	564
MA Col Phar Allied Hlth	0	0	0	0	0	0	0	0	3	3
Massachusetts Institute of Tech	24	26	20	30	30	0	4	49	36	522
New England Conserv of Music	0	0	0	0	0	0	0	0	4	4
Northeastern University	0	2	2	4	4	0	15	19	1	75
Simmons College	0	0	0	0	0	0	0	0	9	9
Smith College	0	0	0	0	0	0	0	0	9	9
Springfield College	0	0	0	0	0	0	0	0	2	2
Tufts University	0	1	0	36	36	0	8	7	11	83
U of Massachusetts Amherst	4	6	14	31	21	10	11	29	135	306

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	S&E rank	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Massachusetts, continued												
U of Massachusetts Boston .....	148	8	0	0	0	0	0	0	0	0	0	0
U of Massachusetts Worcester .....	150	6	0	0	0	0	0	0	0	0	0	0
U of Massachusetts Lowell .....	121	37	16	8	2	5	1	0	15	7	8	0
Worcester Polytechnic Institute .....	143	13	8	0	0	3	0	5	3	0	3	0
Michigan, total .....	8	998	271	22	32	69	55	93	136	51	84	1
Andrews University .....	151	5	0	0	0	0	0	0	0	0	0	0
Michigan State University .....	22	283	36	7	6	12	7	4	43	16	26	1
Michigan Technological U .....	109	49	21	3	7	1	4	6	11	4	7	0
Oakland University .....	147	9	6	0	0	0	0	6	1	1	0	0
University of Detroit Mercy .....	139	17	2	0	0	0	2	0	1	0	1	0
University of Michigan Ann Arbor .....	5	472	178	8	16	51	29	74	57	25	32	0
Wayne State University .....	61	129	28	4	3	5	13	3	23	5	18	0
Western Michigan University .....	123	34	0	0	0	0	0	0	0	0	0	0
Minnesota, total .....	18	475	113	17	12	24	23	37	53	24	29	0
Luther Seminary .....	156	0	0	0	0	0	0	0	0	0	0	0
Mayo Graduate School .....	148	8	0	0	0	0	0	0	0	0	0	0
U of Minnesota Twin Cities .....	8	439	113	17	12	24	23	37	53	24	29	0
University of St Thomas .....	156	0	0	0	0	0	0	0	0	0	0	0
Walden University .....	128	28	0	0	0	0	0	0	0	0	0	0
Mississippi, total .....	36	172	27	4	0	11	2	10	17	4	13	0
Delta State University .....	156	0	0	0	0	0	0	0	0	0	0	0
Jackson State University .....	156	0	0	0	0	0	0	0	0	0	0	0
Mississippi State University .....	85	81	19	3	0	8	1	7	0	0	0	0
Reformed Theological Sem .....	156	0	0	0	0	0	0	0	0	0	0	0
U of Mississippi Med Ctr .....	144	12	0	0	0	0	0	0	0	0	0	0
U of Mississippi .....	118	40	8	1	0	3	1	3	5	3	2	0
U of Southern Mississippi .....	119	39	0	0	0	0	0	0	12	1	11	0
Missouri, total .....	22	411	104	8	9	19	14	54	47	14	32	1
Concordia Seminary .....	156	0	0	0	0	0	0	0	0	0	0	0
Midwestern Baptist Theol Sem .....	156	0	0	0	0	0	0	0	0	0	0	0
St Louis University .....	118	40	1	0	0	0	0	1	0	0	0	0
University Missouri Columbia .....	54	145	31	5	5	7	3	11	11	3	8	0
University Missouri Kansas City .....	136	20	1	0	0	1	0	0	2	0	2	0
University Missouri Rolla .....	99	60	51	1	3	3	7	37	6	4	2	0
University Missouri St Louis .....	138	18	0	0	0	0	0	0	7	0	7	0
Washington University .....	62	128	20	2	1	8	4	5	21	7	13	1
Montana, total .....	47	47	5	1	2	2	0	0	9	5	4	0
Montana State University .....	129	27	5	1	2	2	0	0	8	5	3	0
University of Montana .....	136	20	0	0	0	0	0	0	1	0	1	0
Nebraska, total .....	37	141	14	0	2	5	1	6	18	3	15	0
Creighton University .....	150	6	0	0	0	0	0	0	0	0	0	0
U of Nebraska at Lincoln .....	57	135	14	0	2	5	1	6	18	3	15	0
Nevada, total .....	44	54	12	0	1	5	1	5	6	1	5	0
University of Nevada-Las Vegas .....	156	0	0	0	0	0	0	0	0	0	0	0
University of Nevada-Reno .....	104	54	12	0	1	5	1	5	6	1	5	0
New Hampshire, total .....	40	87	11	1	0	0	1	9	23	11	10	2
Dartmouth College .....	113	45	8	0	0	0	0	8	10	7	3	0
University of New Hampshire .....	116	42	3	1	0	0	0	1	13	4	7	2
New Jersey, total .....	13	627	138	19	18	39	20	42	106	51	54	1
Drew University .....	155	1	0	0	0	0	0	0	0	0	0	0
Fairleigh Dickinson U Rutherford .....	142	14	0	0	0	0	0	0	0	0	0	0
New Jersey Institute Technology .....	129	27	22	3	7	7	5	0	0	0	0	0
Princeton Theological Seminary .....	155	1	0	0	0	0	0	0	0	0	0	0
Princeton University .....	33	221	48	11	8	18	7	4	62	35	27	0
Rutgers St U NJ New Brunswick .....	26	260	55	4	3	11	7	30	28	14	13	1
Rutgers St U NJ Newark Campus .....	130	26	1	0	0	0	0	1	7	0	7	0
Seton Hall University .....	123	34	0	0	0	0	0	0	7	0	7	0
Stevens Institute of Technology .....	135	21	12	1	0	3	1	7	2	2	0	0
U of Medicine & Dentistry of NJ .....	134	22	0	0	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	Earth, atmos. ocean	Mathem- atics	Com- puter sci- ences	Biological & agricultural sciences			Psy- cho- logy	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agri- cultural				
Massachusetts, continued										
U of Massachusetts Boston	2	0	0	1	1	0	4	1	0	8
U of Massachusetts Worcester	0	0	0	6	6	0	0	0	0	6
U of Massachusetts Lowell	0	0	2	4	4	0	0	0	21	58
Worcester Polytechnic Institute	0	0	0	2	2	0	0	0	0	13
Michigan, total	28	44	28	215	164	51	131	145	524	1,522
Andrews University	0	0	0	0	0	0	5	0	17	22
Michigan State University	4	8	11	96	54	42	38	47	130	413
Michigan Technological U	4	0	0	13	6	7	0	0	5	54
Oakland University	0	0	0	2	2	0	0	0	2	11
University of Detroit Mercy	0	0	0	0	0	0	14	0	0	17
University of Michigan Ann Arbor	19	21	11	66	64	2	38	82	243	715
Wayne State University	0	5	6	38	36	0	22	7	87	216
Western Michigan University	1	10	0	0	0	0	14	9	40	74
Minnesota, total	3	20	17	142	96	46	74	53	386	861
Luther Seminary	0	0	0	0	0	0	0	0	4	4
Mayo Graduate School	0	0	0	8	8	0	0	0	0	8
U of Minnesota Twin Cities	3	20	17	133	87	46	49	51	244	683
University of St Thomas	0	0	0	0	0	0	0	0	17	17
Walden University	0	0	0	1	1	0	25	2	121	149
Mississippi, total	1	3	2	63	32	31	42	17	177	349
Delta State University	0	0	0	0	0	0	0	0	10	10
Jackson State University	0	0	0	0	0	0	0	0	4	4
Mississippi State University	0	1	1	43	12	31	5	12	37	118
Reformed Theological Sem	0	0	0	0	0	0	0	0	9	9
U of Mississippi Med Ctr	0	0	0	12	12	0	0	0	0	12
U of Mississippi	0	2	1	3	3	0	16	5	54	94
U of Southern Mississippi	1	0	0	5	5	0	21	0	63	102
Missouri, total	11	13	5	109	94	15	68	54	223	634
Concordia Seminary	0	0	0	0	0	0	0	0	3	3
Midwestern Baptist Theol Sem	0	0	0	0	0	0	0	0	23	23
St Louis University	3	1	0	17	17	0	12	6	66	106
University Missouri Columbia	4	3	0	37	22	15	30	29	72	217
University Missouri Kansas City	0	0	0	4	4	0	11	2	17	37
University Missouri Rolla	1	0	2	0	0	0	0	0	0	60
University Missouri St Louis	0	0	0	0	0	0	9	2	6	24
Washington University	3	9	3	51	51	0	6	15	36	184
Montana, total	2	7	0	16	10	6	8	0	20	67
Montana State University	1	3	0	10	7	3	0	0	13	40
University of Montana	1	4	0	6	3	3	8	0	7	27
Nebraska, total	4	8	3	60	35	25	22	12	114	255
Creighton University	0	0	0	6	6	0	0	0	0	6
U of Nebraska at Lincoln	4	8	3	54	29	25	22	12	114	249
Nevada, total	10	0	1	14	14	0	9	2	26	80
University of Nevada-Las Vegas	0	0	0	0	0	0	0	0	13	13
University of Nevada-Reno	10	0	1	14	14	0	9	2	13	67
New Hampshire, total	2	6	1	33	30	3	2	9	9	96
Dartmouth College	2	2	1	21	21	0	1	0	0	45
University of New Hampshire	0	4	0	12	9	3	1	9	9	51
New Jersey, total	22	48	30	127	115	12	68	88	250	877
Drew University	0	0	0	0	0	0	1	0	13	14
Fairleigh Dickinson U Rutherford	0	0	0	0	0	0	14	0	0	14
New Jersey Institute Technology	1	0	4	0	0	0	0	0	0	27
Princeton Theological Seminary	0	0	0	0	0	0	1	0	13	14
Princeton University	5	15	7	23	23	0	9	52	79	300
Rutgers St U NJ New Brunswick	16	30	15	74	62	12	12	30	121	381
Rutgers St U NJ Newark Campus	0	0	1	7	7	0	4	6	13	39
Seton Hall University	0	0	0	1	1	0	26	0	10	44
Stevens Institute of Technology	0	3	3	0	0	0	0	1	0	22
U of Medicine & Dentistry of NJ	0	0	0	22	22	0	0	0	0	22

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	S&E rank	Total S&E	Engineering					Physical sciences				
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
New Mexico, total	35	176	51	9	4	20	9	9	25	13	12	0
New Mexico Inst Mining & Tech	147	9	2	2	0	0	0	0	2	1	1	0
New Mexico State University	102	56	21	4	1	5	5	6	9	5	4	0
University of New Mexico	67	111	28	3	3	15	4	3	14	7	7	0
New York, total	2	2,471	426	50	45	161	66	104	382	174	206	2
Adelphi University	129	27	0	0	0	0	0	0	0	0	0	0
Albany Medical College	146	10	0	0	0	0	0	0	0	0	0	0
Alfred University	147	9	9	0	0	0	0	9	0	0	0	0
Clarkson University	122	35	27	12	12	3	5	5	5	0	5	0
Columbia U in City of New York	23	281	33	2	3	17	6	5	48	26	22	0
Cornell U Medical Campus	132	24	0	0	0	0	0	0	0	0	0	0
Cornell U Endowed Colleges	11	430	88	8	14	28	11	27	71	34	37	0
CUNY Grad School & U Center	34	193	15	1	2	8	1	3	30	14	16	0
Fordham University	112	46	0	0	0	0	0	0	0	0	0	0
Hofstra University	125	31	0	0	0	0	0	0	0	0	0	0
Jewish Theological Sem America	156	0	0	0	0	0	0	0	0	0	0	0
Juilliard School	156	0	0	0	0	0	0	0	0	0	0	0
Long Island University Brooklyn	146	10	0	0	0	0	0	0	0	0	0	0
Manhattan School of Music	156	0	0	0	0	0	0	0	0	0	0	0
New School For Social Research	110	48	0	0	0	0	0	0	0	0	0	0
New York Medical College	152	4	0	0	0	0	0	0	0	0	0	0
New York University	47	159	0	0	0	0	0	0	22	7	14	1
Pace University New York Campus	156	0	0	0	0	0	0	0	0	0	0	0
Polytechnic University	115	43	26	0	5	11	1	9	13	3	10	0
Rensselaer Polytechnic Institute	55	141	79	9	6	22	17	25	30	11	19	0
Rocketeller University	136	20	0	0	0	0	0	0	2	2	0	0
St John's U (Jamaica NY)	145	11	0	0	0	0	0	0	0	0	0	0
Syracuse University	59	133	39	3	2	28	1	5	23	12	10	1
SUNY at Albany	69	106	0	0	0	0	0	0	10	5	5	0
SUNY at Binghamton	88	75	9	0	0	4	2	3	7	0	7	0
SUNY at Buffalo	35	192	58	11	6	22	13	6	27	7	20	0
SUNY at Stony Brook	36	188	22	0	0	12	5	5	48	30	18	0
SUNY Col Environ Sci & Forestry	127	29	5	0	5	0	0	0	3	0	3	0
SUNY Col of Optometry	156	0	0	0	0	0	0	0	0	0	0	0
SUNY Health Sci Ctr Brooklyn	142	14	0	0	0	0	0	0	0	0	0	0
SUNY Health Sci Ctr Syracuse	145	11	0	0	0	0	0	0	0	0	0	0
Teachers College Columbia U	156	0	0	0	0	0	0	0	0	0	0	0
Union College	156	0	0	0	0	0	0	0	0	0	0	0
Union Theological Seminary	156	0	0	0	0	0	0	0	0	0	0	0
University of Rochester	49	156	16	4	0	6	4	2	43	23	20	0
Yeshiva University	113	45	0	0	0	0	0	0	0	0	0	0
North Carolina, total	9	691	136	12	20	28	20	56	95	30	65	0
Duke University	39	177	36	0	4	16	7	9	25	13	12	0
East Carolina University	152	4	0	0	0	0	0	0	0	0	0	0
North Carolina State U Raleigh	28	250	92	12	11	12	13	44	22	9	13	0
U of North Carolina Chapel Hill	31	227	8	0	5	0	0	3	45	7	38	0
U of North Carolina Greensboro	140	16	0	0	0	0	0	0	0	0	0	0
Wake Forest University	139	17	0	0	0	0	0	0	3	1	2	0

See explanatory information, if any, and SOURCE at end of table

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	Earth, atmos. ocean	Mathe- matics	Com- puter scien- ces	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agricul- tural				
New Mexico, total	7	7	9	38	29	9	18	21	106	282
New Mexico Inst Mining & Tech	3	0	2	0	0	0	0	0	0	9
New Mexico State University	0	0	2	20	11	9	4	0	20	76
University of New Mexico	4	7	5	18	18	0	14	21	86	197
New York, total	66	115	109	578	521	57	357	438	1,383	3,854
Adelphi University	0	0	0	0	0	0	27	0	18	45
Albany Medical College	0	0	0	10	10	0	0	0	0	10
Alfred University	0	0	0	0	0	0	0	0	0	9
Clarkson University	0	2	0	1	1	0	0	0	0	35
Columbia U City of New York	25	13	10	62	62	0	24	66	167	448
Cornell U Medical Campus	0	0	0	24	24	0	0	0	0	24
Cornell U Endowed Colleges	10	18	11	136	89	47	10	86	95	525
CUNY Grad School & U Center	1	9	16	47	47	0	39	36	100	293
Fordham University	0	0	0	1	1	0	28	17	72	118
Hofstra University	0	0	0	0	0	0	31	0	5	36
Jewish Theological Sem America	0	0	0	0	0	0	0	0	6	6
Juilliard School	0	0	0	0	0	0	0	0	9	9
Long Island University Brooklyn	0	0	0	0	0	0	10	0	0	10
Manhattan School of Music	0	0	0	0	0	0	0	0	15	15
New School For Social Research	0	0	0	0	0	0	29	19	1	49
New York Medical College	0	0	0	4	4	0	0	0	0	4
New York University	2	19	11	43	43	0	20	42	222	381
Pace University New York Campus	0	0	0	0	0	0	0	0	5	5
Polytechnic University	0	1	3	0	0	0	0	0	0	43
Rensselaer Polytechnic Institute	2	10	14	1	1	0	0	5	13	154
Rockefeller University	0	0	0	18	18	0	0	0	0	20
St John's L (Jamaica, NY)	0	0	0	4	4	0	7	0	9	20
Syracuse University	2	5	8	10	10	0	14	32	66	199
SUNY at Albany	5	6	1	13	13	0	36	35	50	156
SUNY at Binghamton	3	7	6	3	3	0	19	21	29	104
SUNY at Buffalo	2	5	15	47	47	0	15	23	127	319
SUNY at Stony Brook	7	16	5	41	41	0	19	30	54	242
SUNY Col Environ Sci & Forestry	6	0	0	14	4	10	1	0	0	29
SUNY Col of Optometry	0	0	0	0	0	0	0	0	1	1
SUNY Health Sci Ctr Brooklyn	0	0	0	14	14	0	0	0	0	14
SUNY Health Sci Ctr Syracuse	0	0	0	11	11	0	0	0	0	11
Teachers College Columbia U	0	0	0	0	0	0	0	0	212	212
Union College	0	0	0	0	0	0	0	0	2	2
Union Theological Seminary	0	0	0	0	0	0	0	0	7	7
University of Rochester	1	4	9	45	45	0	12	26	85	241
Yeshiva University	0	0	0	29	29	0	16	0	13	58
North Carolina, total	20	21	20	245	195	50	54	100	310	1,001
Duke University	5	6	6	65	64	1	7	27	56	233
East Carolina University	0	0	0	4	4	0	0	0	1	5
North Carolina State U Raleigh	8	11	6	84	35	49	7	20	55	305
U of North Carolina Chapel Hill	7	4	8	77	77	0	25	53	142	369
U of North Carolina Greensboro	0	0	0	1	1	0	15	0	56	72
Wake Forest University	0	0	0	14	14	0	0	0	0	17

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**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	S&E rank	Total S&E	Engineering						Physical sciences			
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
North Dakota total	45	53	4	0	0	4	0	0	8	0	8	0
North Dakota State University	133	23	3	0	0	3	0	0	4	0	4	0
University of North Dakota	126	30	1	0	0	1	0	0	4	0	4	0
Ohio total	7	1 065	295	48	25	57	55	110	180	68	112	0
Air Force Institute Technology	142	14	9	0	0	1	0	8	2	2	0	0
Bowling Green State University	117	41	0	0	0	0	5	0	0	0	0	0
Case Western Reserve University	61	129	60	12	3	9	12	24	23	11	12	0
Cleveland State University	146	10	4	0	2	1	0	1	4	0	4	0
Hebrew Union Col Jewish Inst Relig	156	9	0	0	0	0	0	0	0	0	0	0
Kent State University	90	73	0	0	0	0	0	0	13	10	3	0
Medical College of Ohio	143	13	0	0	0	0	0	0	1	1	0	0
Miami University Oxford Campus	136	20	0	0	0	0	0	0	7	0	7	0
Ohio State University	12	425	102	10	13	15	25	39	62	18	44	0
Ohio University	121	37	10	5	0	4	1	0	7	7	0	0
University of Akron	82	85	28	17	2	3	3	3	31	8	23	0
University of Cincinnati	47	159	53	4	4	14	7	24	22	8	14	0
University of Dayton	136	20	18	0	0	6	5	7	0	0	0	0
University of Toledo	126	30	11	0	1	4	2	4	8	3	5	0
Wright State University	147	9	0	0	0	0	0	0	0	0	0	0
Oklahoma total	31	227	69	25	10	7	10	17	31	12	19	0
Oklahoma State University	78	92	23	2	2	3	5	11	11	6	5	0
University of Oklahoma Norman	66	112	32	12	8	4	2	6	20	6	14	0
University of Tulsa	133	23	14	11	0	0	3	0	0	0	0	0
Oregon total	25	301	35	3	6	11	5	10	43	20	22	1
Oregon Grad Inst Science & Tech	132	24	3	0	0	1	0	8	4	2	2	0
Oregon Health Sciences U	141	15	0	0	0	0	0	0	0	0	0	0
Oregon State University	52	147	23	3	6	8	5	1	16	6	9	1
Portland State University	137	19	3	0	0	2	0	1	0	0	0	0
University of Oregon	75	96	0	0	0	0	0	0	23	12	11	0
Pennsylvania total	6	1,358	413	50	28	105	78	152	188	88	100	0
Bryn Mawr College	145	11	0	0	0	0	0	0	2	2	0	0
Carnegie Mellon University	48	157	81	8	8	31	12	22	21	16	5	0
Drexel University	102	56	30	3	3	10	7	8	6	4	2	0
Duquesne University	150	6	0	0	0	0	0	0	2	0	2	0
Indiana University Pennsylvania	151	5	0	0	0	0	0	0	0	0	0	0
Lehigh University	81	86	48	11	6	10	8	13	17	12	5	0
Medical Col PA the	150	6	0	0	0	0	0	0	0	0	0	0
Medical Col PA & Hahnemann U	143	13	0	0	0	0	0	0	0	0	0	0
Pennsylvania State U	13	401	160	13	7	31	35	74	55	17	38	0
Philadelphia Col Pharmacy & Sci	155	1	0	0	0	0	0	0	0	0	0	0
Temple University	65	115	4	0	0	4	0	0	11	5	6	0
Thomas Jefferson University	134	22	0	0	0	0	0	0	0	0	0	0
University of Pennsylvania	17	318	53	8	2	9	7	27	46	27	19	0
University of Pittsburgh	48	157	37	8	2	10	9	8	26	5	21	0
Villanova University	152	4	0	0	0	0	0	0	2	0	2	0
Westminster Theological Seminary	156	0	0	0	0	0	0	0	0	0	0	0
Widener U Pennslyvania Campus	156	0	0	0	0	0	0	0	0	0	0	0
Rhode Island total	34	178	34	5	0	15	10	4	27	10	15	2
Brown University	70	102	11	0	0	3	4	4	17	7	8	2
University of Rhode Island	87	76	23	5	0	12	6	0	10	3	7	0
South Carolina, total	32	199	40	9	6	8	4	13	34	6	28	0
Clemson University	80	87	38	8	6	7	4	13	12	5	7	0
Medical U South Carolina	139	17	0	0	0	0	0	0	0	0	0	0
South Carolina State University	156	0	0	0	0	0	0	0	0	0	0	0
U of South Carolina at Columbia	76	95	2	1	0	1	0	0	22	1	21	0

See explanatory information, if any, and SOURCE at end of table

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	Earth, atmos. ocean	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agri- cultural				
North Dakota, total .....	0	1	4	22	15	7	14	0	30	83
North Dakota State University .....	0	1	4	11	4	7	0	0	1	24
University of North Dakota .....	0	0	0	11	11	0	14	0	29	59
Ohio, total .....	20	31	32	241	205	.36	136	130	726	1,791
Air Force Institute Technology .....	0	3	0	0	0	0	0	0	0	14
Bowling Green State University .....	0	2	0	7	7	0	17	15	33	74
Case Western Reserve University .....	1	1	3	29	29	0	6	6	37	166
Cleveland State University .....	0	0	0	0	0	0	0	2	20	30
Hebrew Union Col-Jewish Inst Relig .....	0	0	0	0	0	0	0	0	3	3
Kent State University .....	2	4	7	12	12	0	27	8	97	170
Medical College of Ohio .....	0	0	0	12	12	0	0	0	0	13
Miami University Oxford Campus .....	1	0	0	4	4	0	7	1	23	43
Ohio State University .....	13	14	21	113	77	36	28	72	263	688
Ohio University .....	0	2	0	7	7	0	11	0	79	116
University of Akron .....	0	0	0	3	3	0	13	10	24	109
University of Cincinnati .....	3	4	0	41	41	0	20	16	104	263
University of Dayton .....	0	0	0	2	2	0	0	0	9	29
University of Toledo .....	0	1	0	3	3	0	7	0	34	64
Wright State University .....	0	0	1	8	8	0	0	0	0	9
Oklahoma, total .....	13	3	5	46	34	12	36	24	157	384
Oklahoma State University .....	6	2	1	21	9	12	14	14	70	162
University of Oklahoma Norman .....	7	1	3	25	25	0	14	10	79	191
University of Tulsa .....	0	0	1	0	0	0	8	0	8	31
Oregon, total .....	17	21	11	104	72	32	26	44	150	451
Oregon Grad Inst Science & Tech .....	3	0	4	4	4	0	0	0	0	24
Oregon Health Sciences U .....	0	0	0	13	13	0	2	0	5	20
Oregon State University .....	9	10	6	73	41	32	5	5	39	186
Portland State University .....	2	1	0	0	0	0	0	13	11	30
University of Oregon .....	3	10	1	14	14	0	19	26	95	191
Pennsylvania, total .....	11	59	50	273	253	20	142	222	867	2,225
Bryn Mawr College .....	0	0	0	1	1	0	4	4	10	21
Carnegie Mellon University .....	0	12	17	9	9	0	7	10	21	178
Drexel University .....	0	1	4	9	9	0	5	1	6	62
Duquesne University .....	0	0	0	1	1	0	3	0	18	24
Indiana University Pennsylvania .....	0	0	0	0	0	0	0	5	26	31
Lehigh University .....	3	4	2	9	9	0	2	1	24	110
Medical Col PA, the .....	0	0	0	6	6	0	0	0	1	7
Medical Col PA & Hahnemann U .....	0	0	0	5	5	0	8	0	0	13
Pennsylvania State U .....	5	15	9	86	66	20	33	38	184	585
Philadelphia Col Pharmacy & Sci .....	0	0	0	1	1	0	0	0	6	7
Temple University .....	0	8	2	22	22	0	45	23	205	320
Thomas Jeffersons University .....	0	0	0	22	22	0	0	0	0	22
University of Pennsylvania .....	0	11	13	63	63	0	19	113	178	496
University of Pittsburgh .....	3	8	3	37	37	0	16	27	165	322
Villanova University .....	0	0	0	2	2	0	0	0	0	4
Westminster Theological Seminary .....	0	0	0	0	0	0	0	0	8	8
Widener U Pennsylvania Campus .....	0	0	0	0	0	0	0	0	15	15
Rhode Island, total .....	15	9	9	38	37	1	15	31	68	246
Brown University .....	4	8	9	18	18	0	5	30	37	139
University of Rhode Island .....	11	1	0	20	19	1	10	1	31	107
South Carolina, total .....	9	16	5	64	57	7	15	16	171	370
Clemson University .....	1	6	3	27	20	7	0	0	12	99
Medical U South Carolina .....	0	0	0	17	17	0	0	0	3	20
South Carolina State University .....	0	0	0	0	0	0	0	0	14	14
U of South Carolina at Columbia .....	8	10	2	20	20	0	15	16	142	237

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	S&E rank	Total S&E	Engineering					Physical sciences				
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
South Dakota, total	52	17	1	0	0	0	0	0	0	0	0	0
South Dakota Sch of Mines & Tech	153	3	1	0	0	0	0	1	0	0	0	0
South Dakota State University	149	7	0	0	0	0	0	0	0	0	0	0
University of South Dakota	149	7	0	0	0	0	0	0	0	0	0	0
Tennessee, total	24	336	70	14	8	12	11	25	41	18	23	0
East Tennessee State University	149	7	0	0	0	0	0	0	0	0	0	0
Geo Peabody Col Teachers	156	0	0	0	0	0	0	0	0	0	0	0
Meharry Medical College	150	6	0	0	0	0	0	0	0	0	0	0
Mid-America Baptist Theol Sem	156	0	0	0	0	0	0	0	0	0	0	0
Middle Tennessee State U	153	3	0	0	0	0	0	0	2	0	2	0
Tennessee State University	155	1	0	0	0	0	0	0	0	0	0	0
Tennessee Technological U	148	8	8	0	2	1	3	2	0	0	0	0
University of Memphis	120	38	7	0	0	2	3	2	2	0	2	0
University Tennessee Knoxville	47	159	37	12	3	3	3	16	18	3	15	0
University Tennessee Memphis	139	17	0	0	0	0	0	0	1	1	0	0
Vanderbilt University	74	97	18	2	3	6	2	5	18	14	4	0
Texas, total	3	1,708	466	77	62	139	78	110	239	114	125	0
Baylor College of Medicine	113	45	0	0	0	0	0	0	0	0	0	0
Baylor University	146	10	0	0	0	0	0	0	7	1	6	0
Dallas Theological Seminary	156	0	0	0	0	0	0	0	0	0	0	0
East Texas State University	155	1	0	0	0	0	0	0	0	0	0	0
Lamar University-Beaumont	150	6	6	2	1	1	0	2	0	0	0	0
Rice University	69	106	27	10	2	4	5	6	24	17	7	0
Sam Houston State University	149	7	0	0	0	0	0	0	0	0	0	0
Southern Methodist University	103	55	25	0	0	15	6	4	0	0	0	0
Southwestern Baptist Theol Sem	154	2	0	0	0	0	0	0	0	0	0	0
St Mary's University	152	4	0	0	0	0	0	0	0	0	0	0
Stephen F Austin State U	155	1	0	0	0	0	0	0	0	0	0	0
Texas A&M University	10	432	125	23	18	31	21	32	52	15	37	0
Texas Christian University	145	11	0	0	0	0	0	0	5	2	3	0
Texas Southern University	156	0	0	0	0	0	0	0	0	0	0	0
Texas Tech University	82	85	17	1	2	9	2	3	12	3	9	0
Texas Woman's University	125	31	0	0	0	0	0	0	0	0	0	0
University of Dallas	155	1	0	0	0	0	0	0	0	0	0	0
University of Houston	64	121	35	10	3	6	7	9	17	5	12	0
U North TX	96	65	0	0	0	0	0	0	11	6	5	0
U North TX Hlth Sci Ctr Ft Worth	151	5	0	0	0	0	0	0	0	0	0	0
U Texas at Arlington	96	65	45	0	4	15	14	12	9	2	7	0
U Texas at Austin	7	458	174	31	32	48	23	40	84	48	36	0
U Texas at Dallas	106	52	8	0	0	8	0	0	15	12	3	0
U Texas at El Paso	150	6	2	0	0	2	0	0	0	0	0	0
U Texas Hlth Sci Ctr Houston	111	47	0	0	0	0	0	0	1	1	0	0
U Texas Hlth Sci Ctr San Antonio	1.1	25	0	0	0	0	0	0	2	2	0	0
U Texas Med Branch Galveston	129	27	0	0	0	0	0	0	0	0	0	0
U Texas SW Med Ctr Dallas	118	40	2	0	0	0	0	2	0	0	0	0
Utah, total	28	279	83	12	17	11	13	30	48	13	35	0
Brigham Young University	94	68	17	6	6	2	3	0	9	4	5	0
University of Utah	50	154	47	6	4	3	9	25	30	5	25	0
Utah State University	101	57	19	0	7	6	1	5	9	4	5	0
Vermont, total	48	44	3	0	0	3	0	0	7	0	7	0
Middlebury College	156	0	0	0	0	0	0	0	0	0	0	0
University of Vermont	114	44	3	0	0	3	0	0	7	0	7	0
Virginia, total	12	663	183	11	18	48	36	70	72	32	40	0
College of William and Mary	128	28	2	1	0	0	0	1	8	7	1	0
George Mason University	83	84	11	0	0	10	0	1	0	0	0	0
Old Dominion University	114	44	18	0	2	1	9	6	5	5	0	0
Fresbyterian Schl Christ Educ	156	0	0	0	0	0	0	0	0	0	0	0
Robert University	156	0	0	0	0	0	0	0	0	0	0	0
Union Theological Sem Virginia	156	0	0	0	0	0	0	0	0	0	0	0

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	Earth, atmos. ocean	Mathem- atics	Com- puter scien- ces	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E, total	Grand total, all fields
				Total	Bio- logical	Agri- cultural				
South Dakota, total .....	2	0	0	7	4	3	4	3	41	58
South Dakota Sch of Mines & Tech .....	2	0	0	0	0	0	0	0	0	3
South Dakota State University .....	0	0	0	4	1	3	0	3	0	7
University of South Dakota .....	0	0	0	3	3	0	4	0	41	48
Tennessee, total .....	5	10	9	94	85	9	61	46	301	637
East Tennessee State University .....	0	0	0	7	7	0	0	0	20	27
Geo Peabody Col Teachers .....	0	0	0	0	0	0	0	0	43	43
Meharry Medical College .....	0	0	0	6	6	0	0	0	0	6
Mid-America Baptist Theol Sem .....	0	0	0	0	0	0	0	0	4	4
Middle Tennessee State U .....	0	0	0	0	0	0	1	0	12	15
Tennessee State University .....	0	0	0	0	0	0	0	1	28	29
Tennessee Technological U .....	0	0	0	0	0	0	0	0	0	8
University of Memphis .....	0	3	1	2	2	0	22	1	60	98
University Tennessee Knoxville .....	5	3	3	37	28	9	25	31	95	254
University Tennessee Memphis .....	0	0	0	16	16	0	0	0	1	18
Vanderbilt University .....	0	4	5	26	26	0	13	13	38	135
Texas, total .....	72	65	78	435	368	67	189	164	1,009	2,717
Baylor College of Medicine .....	0	0	0	45	45	0	0	0	0	45
Baylor University .....	0	2	0	0	0	0	0	1	0	38
Dallas Theological Seminary .....	0	0	0	0	0	0	0	0	10	10
East Texas State University .....	0	0	0	0	0	0	1	0	47	48
Lamar University-Beaumont .....	0	0	0	0	0	0	0	0	0	6
Rice University .....	8	14	10	9	9	0	5	9	18	124
Sam Houston State University .....	0	0	0	0	0	0	0	7	0	7
Southern Methodist University .....	5	7	6	1	1	0	3	8	0	55
Southwestern Baptist Theol Sem .....	0	0	0	0	0	0	2	0	77	79
St Mary's University .....	0	0	0	0	0	0	4	0	1	5
Stephen F Austin State U .....	0	0	0	1	0	1	0	0	0	1
Texas A&M University .....	23	14	19	138	83	55	20	41	132	564
Texas Christian University .....	0	0	0	1	1	0	5	0	7	18
Texas Southern University .....	0	0	0	0	0	0	0	0	15	15
Texas Tech University .....	4	7	2	16	6	10	16	11	57	142
Texas Woman's University .....	0	0	0	9	8	1	20	2	57	88
University of Dallas .....	0	0	0	0	0	0	0	1	3	4
University of Houston .....	7	3	6	17	17	0	29	7	87	208
U North TX .....	0	4	10	6	6	0	29	5	123	188
U North TX Hlth Sci Ctr Ft Worth .....	0	0	0	5	5	0	0	0	0	5
U Texas at Arlington .....	0	1	5	0	0	0	3	2	29	94
U Texas at Austin .....	14	10	20	52	52	0	39	65	266	724
U Texas at Dallas .....	6	3	0	9	9	0	5	6	19	71
U Texas at El Paso .....	4	0	0	0	0	0	0	0	0	6
U Texas Hlth Sci Ctr Houston .....	1	0	0	45	45	0	0	0	27	74
U Texas Hlth Sci Ctr San Antonio .....	0	0	0	23	23	0	0	0	0	25
U Texas Med Branch Galveston .....	0	0	0	27	27	0	0	0	6	33
U Texas SW Med Ctr Dallas .....	0	0	0	31	31	0	7	0	0	40
Utah, total .....	7	10	10	44	34	10	52	25	88	367
Brigham Young University .....	0	3	3	2	2	0	31	3	26	94
University of Utah .....	5	6	7	26	26	0	12	21	55	209
Utah State University .....	2	1	0	16	6	10	9	1	7	64
Vermont, total .....	0	0	0	20	19	1	14	0	10	54
Middlebury College .....	0	0	0	0	0	0	0	0	1	1
University of Vermont .....	0	0	0	20	19	1	14	0	9	53
Virginia, total .....	23	38	38	142	116	26	82	85	342	1,005
College of William and Mary .....	11	0	3	3	3	0	0	1	13	41
George Mason University .....	3	4	23	8	8	0	14	21	31	115
Old Dominion University .....	3	6	1	6	6	0	3	2	15	59
Presbyterian Schol Christ Educ .....	0	0	0	0	0	0	0	0	5	5
Regent University .....	0	0	0	0	0	0	0	0	3	3
Union Theological Sem Virginia .....	0	0	0	0	0	0	0	0	5	5

See explanatory information, if any, and SOURCE at end of table.

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

[To increase readability, fields span 2 pages and institutions are repeated on facing pages]

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State and institution	S&E rank	Total S&E	Engineering					Physical sciences				
			Total	Chemical	Civil	Electrical	Mechanical	Other engineering	Total	Physics & astronomy	Chemistry	Other physical sciences
Virginia, continued												
University of Virginia .....	37	185	47	3	4	12	6	22	30	16	14	0
Virginia Commonwealth University .....	88	75	0	0	0	0	0	0	9	0	9	0
Virginia Polytechnic Inst & St U .....	29	247	105	7	12	25	21	40	20	4	16	0
Washington, total .....	19	466	102	14	11	39	13	25	52	23	29	0
Gonzaga University .....	156	0	0	0	0	0	0	0	0	0	0	0
Seattle University .....	156	0	0	0	0	0	0	0	0	0	0	0
University of Washington .....	15	332	80	13	8	33	7	19	40	19	21	0
Washington State University .....	58	134	22	1	3	6	6	6	12	4	8	0
West Virginia, total .....	41	78	27	2	4	3	12	6	12	4	8	0
Marshall University .....	153	3	0	0	0	0	0	0	0	0	0	0
West Virginia University .....	88	75	27	2	4	3	12	6	12	4	8	0
Wisconsin, total .....	14	612	127	12	10	39	21	45	101	43	58	0
Marquette University .....	133	23	12	0	0	5	2	5	4	0	4	0
Medical College of Wisconsin .....	141	15	0	0	0	0	0	0	1	1	0	0
U of Wisconsin-Madison .....	2	531	111	12	10	31	19	39	87	39	48	0
U of Wisconsin-Milwaukee .....	115	43	4	0	0	3	0	1	9	3	6	0
Wyoming, total .....	46	50	11	4	1	2	4	0	10	5	5	0
University of Wyoming .....	108	50	11	4	1	2	4	0	10	5	5	0
Puerto Rico, total .....	49	33	0	0	0	0	0	0	6	2	4	0
Ctr Adv Studies PR & Caribbean .....	142	14	0	0	0	0	0	0	0	0	0	0
Inter American U PR Metropolitan .....	156	0	0	0	0	0	0	0	0	0	0	0
University of PR Rio Piedras .....	137	19	0	0	0	0	0	0	6	2	4	0

See explanatory information, if any, and SOURCE at end of table

**Table 6. Institutions conferring science and engineering (S&E) doctorates,  
by State, institution, and major field: 1995**

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State and institution	Earth, atmos. ocean	Mathe- matics	Com- puter sci- ences	Biological & agricultural sciences			Psy- chology	Social sci- ences	Non- S&E. total	Grand total, all fields
				Total	Bio- logical	Agri- cul- tural				
Virginia, continued:										
University of Virginia .....	4	13	6	38	38	0	21	26	124	309
Virginia Commonwealth University .....	0	0	0	33	33	0	23	10	33	108
Virginia Polytechnic Inst & St U .....	2	15	5	4	28	26	21	25	113	360
Washington, total .....	30	24	18	141	100	41	33	66	221	687
Gonzaga University .....	0	0	0	0	0	0	0	0	16	16
Seattle University .....	0	0	0	0	0	0	0	0	20	20
University of Washington .....	28	21	14	91	68	23	18	40	149	481
Washington State University .....	2	3	4	50	32	18	15	26	36	170
West Virginia, total .....	0	3	1	21	16	5	10	4	80	158
Marshall University .....	0	0	0	3	3	0	0	0	0	3
West Virginia University .....	0	3	1	18	13	5	10	4	80	155
Wisconsin, total .....	17	45	15	174	134	40	41	92	294	906
Marquette University .....	0	3	0	2	2	0	2	0	34	57
Medical College of Wisconsin .....	0	0	0	14	14	0	0	0	0	15
U of Wisconsin-Madison .....	16	36	15	152	112	40	31	83	226	757
U of Wisconsin-Milwaukee .....	1	6	0	6	6	0	8	9	34	77
Wyoming, total .....	4	2	0	17	10	7	6	0	13	63
University of Wyoming .....	4	2	0	17	10	7	6	0	13	63
Puerto Rico, total .....	0	0	0	0	0	0	27	0	17	50
Ctr Adv Studies PR & Caribbean .....	0	0	0	0	0	0	14	0	0	14
Inter American U PR Metropolitan .....	0	0	0	0	0	0	0	0	6	6
University of PR Rio Piedras .....	0	0	0	0	0	0	13	0	11	30

KEY: - = Not applicable

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1995**

Page 1 of 2

Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U S	Postdoc study	Academic employment	Industry employment	Other		
All recipients									
Science and engineering, total	26,515	15,552	13,390	6,050	3,003	2,712	1,625	2,107	55
Engineering, total	6,007	3,066	2,533	650	360	1,244	279	514	19
Aeronautical/astronautical	251	132	107	28	10	41	28	24	1
Chemical	708	412	342	101	29	188	24	68	2
Civil	656	311	231	57	66	76	32	78	2
Electrical	1,731	902	778	124	99	486	69	120	4
Industrial	283	138	96	6	42	41	7	40	2
Materials/metallurgical	588	308	267	116	14	111	26	39	2
Mechanical	1,024	462	386	101	52	200	33	71	5
Other engineering	766	401	326	117	48	101	60	74	1
Sciences, total	20,508	12,486	10,857	5,400	2,643	1,468	1,346	1,593	36
Physical sciences, total	3,840	2,290	2,006	1,320	183	399	104	272	12
Astronomy	173	122	103	77	17	4	5	19	0
Chemistry	2,161	1,324	1,219	794	101	274	50	101	4
Physics	1,479	834	677	443	65	120	49	149	8
Other physical sciences	27	10	7	6	0	1	0	3	0
Earth, atmospheric, and ocean sciences	778	440	359	172	66	52	69	81	0
Mathematics	1,190	656	542	146	281	87	28	110	4
Computer sciences	998	619	526	88	178	221	39	91	2
Biological sciences	5,370	3,623	3,298	2,698	290	156	154	315	10
Agricultural sciences	1,036	577	395	158	89	96	52	179	3
Psychology	3,419	2,019	1,952	608	495	298	551	66	1
Social sciences	3,877	2,262	1,779	210	1,061	159	349	479	4
Non-S&E, total	15,095	9,302	8,416	457	4,995	581	2,383	874	12
Grand total, all fields	41,610	24,854	21,806	6,507	7,998	3,293	4,008	2,981	67
U.S. citizens									
Science and engineering, total	15,460	10,136	9,687	3,967	2,511	1,761	1,448	438	11
Engineering, total	2,382	1,494	1,451	286	275	652	238	43	0
Aeronautical/astronautical	140	77	76	14	8	27	27	1	0
Chemical	291	200	193	37	24	113	19	7	0
Civil	206	138	134	19	52	39	24	4	0
Electrical	683	426	415	64	72	221	58	11	0
Industrial	108	56	56	1	31	17	7	2	0
Materials/metallurgical	238	155	149	48	9	68	24	6	0
Mechanical	379	228	225	37	42	116	30	3	0
Other engineering	337	212	203	66	37	51	49	9	0
Sciences, total	13,078	8,642	8,236	3,681	2,236	1,109	1,210	395	11
Physical sciences, total	2,136	1,444	1,347	807	156	290	94	93	4
Astronomy	120	88	78	56	14	4	4	10	0
Chemistry	1,237	865	829	491	92	202	44	35	1
Physics	764	483	433	254	50	83	46	47	3
Other physical sciences	15	8	7	6	0	1	0	1	0
Earth, atmospheric, and ocean sciences	478	294	271	110	59	39	63	23	0
Mathematics	554	365	348	80	191	50	27	16	1
Computer sciences	484	311	294	35	126	103	30	16	1
Biological sciences	3,489	2,510	2,391	1,853	268	131	139	116	3
Agricultural sciences	492	300	283	79	77	81	46	17	0
Psychology	3,068	1,883	1,860	562	474	290	534	22	1
Social sciences	2,377	1,535	1,442	155	885	125	277	92	1
Non-S&E, total	12,143	7,929	7,735	363	4,526	520	2,326	190	4
Grand total, all fields	27,603	18,065	17,422	4,330	7,037	2,281	3,774	628	15

See explanatory information, if any, and SOURCE at end of table.

**Table 7. Postgraduation plans of science and engineering (S&E) doctorate recipients,  
by citizenship status and major field: 1995**

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Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Non-U.S. citizens with permanent visas									
Science and engineering, total .....	3,501	1,705	1,574	883	184	419	88	116	15
Engineering, total .....	954	410	380	88	37	237	18	25	5
Aeronautical/astronautical .....	13	6	6	3	0	2	1	0	0
Chemical .....	90	42	40	13	1	24	2	2	1
Civil .....	103	35	32	7	5	16	4	2	0
Electrical .....	288	142	136	11	5	105	5	6	0
Industrial .....	41	21	15	1	5	9	0	5	1
Materials/metallurgical .....	113	46	42	23	2	16	1	3	1
Mechanical .....	179	65	59	14	4	39	2	4	2
Other engineering .....	127	53	50	16	5	26	3	3	0
Sciences, total .....	2,547	1,295	1,194	795	147	182	70	91	10
Physical sciences, total .....	704	323	298	214	10	66	8	20	5
Astronomy .....	21	17	15	13	1	0	1	2	0
Chemistry .....	386	173	165	117	2	42	4	7	1
Physics .....	295	133	118	84	7	24	3	11	4
Other physical sciences .....	2	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences .....	115	49	45	28	4	8	5	4	0
Mathematics .....	217	81	77	18	30	28	1	4	0
Computer sciences .....	133	82	79	10	17	44	8	3	0
Biological sciences .....	832	513	493	460	12	12	9	15	5
Agricultural sciences .....	106	47	35	25	3	4	3	12	0
Psychology .....	101	49	46	20	11	4	11	3	0
Social sciences .....	339	151	121	20	60	16	25	30	0
Non-S&E, total .....	806	368	310	36	207	27	40	56	2
Grand total, all fields .....	4,307	2,073	1,884	919	391	446	128	172	17
Non-U.S. citizens with temporary visas									
Science and engineering, total .....	6,992	3,698	2,122	1,197	307	530	88	1,547	29
Engineering, total .....	2,523	1,159	699	274	48	354	23	446	14
Aeronautical/astronautical .....	94	48	24	11	2	11	0	23	1
Chemical .....	318	170	109	51	4	51	3	59	2
Civil .....	337	138	65	31	9	21	4	72	1
Electrical .....	712	334	227	49	12	160	6	103	4
Industrial .....	130	59	25	4	6	15	0	33	1
Materials/metallurgical .....	223	106	75	44	3	27	1	30	1
Mechanical .....	437	168	101	49	6	45	1	64	3
Other engineering .....	272	136	73	35	6	24	8	62	1
Sciences, total .....	4,469	2,539	1,423	923	259	176	65	1,101	15
Physical sciences, total .....	930	523	361	299	17	43	2	159	3
Astronomy .....	28	17	10	8	2	0	0	7	0
Chemistry .....	493	286	225	186	7	30	2	59	2
Physics .....	399	218	126	105	8	13	0	91	1
Other physical sciences .....	10	2	0	0	0	0	0	2	0
Earth, atmospheric, and ocean sciences .....	172	97	43	34	3	5	1	54	0
Mathematics .....	382	208	116	48	59	9	0	89	3
Computer sciences .....	365	225	152	43	35	73	1	72	1
Biological sciences .....	971	598	413	384	10	13	6	183	2
Agricultural sciences .....	429	230	77	54	9	11	3	150	3
Psychology .....	162	87	46	26	10	4	6	41	0
Social sciences .....	1,058	571	215	35	116	18	46	353	3
Non-S&E, total .....	1,814	1,001	369	58	261	33	17	626	6
Grand total, all fields .....	8,806	4,699	2,491	1,255	568	563	105	2,173	35

SOURCE: National Science Foundation SRS, Survey of Earned Doctorates

**Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1995**

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Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
All recipients								
Science and engineering, total	100.0	86.1	38.9	19.3	17.4	10.4	13.5	0.4
Engineering, total	100.0	82.6	21.2	11.7	40.6	9.1	16.8	6
Aeronautical/astronautical	100.0	81.1	21.2	7.6	31.1	21.2	18.2	8
Chemical	100.0	83.0	24.5	7.0	45.6	5.8	16.5	5
Civil	100.0	74.3	18.3	21.2	24.4	10.3	25.1	6
Electrical	100.0	86.3	13.7	11.0	53.9	7.6	13.3	4
Industrial	100.0	69.6	4.3	30.4	29.7	5.1	29.0	14
Materials/metallurgical	100.0	86.7	37.7	4.5	36.0	8.4	12.7	6
Mechanical	100.0	83.5	21.9	11.3	43.3	7.1	15.4	11
Other engineering	100.0	81.3	29.2	12.0	25.2	15.0	18.5	2
Sciences, total	100.0	87.0	43.2	21.2	11.8	10.8	12.8	3
Physical sciences, total	100.0	87.6	57.6	0.0	17.4	4.5	11.9	5
Astronomy	100.0	84.4	63.1	13.9	3.3	4.1	15.6	0
Chemistry	100.0	92.1	60.0	7.6	20.7	3.8	7.6	3
Physics	100.0	81.2	53.1	7.8	14.4	5.9	17.9	10
Other physical sciences	100.0	70.0	60.0	0	10.0	0	30.0	0
Earth, atmospheric, and ocean sciences	100.0	81.6	39.1	15.0	11.8	15.7	18.4	0
Mathematics	100.0	82.6	22.3	42.8	13.3	4.3	16.8	6
Computer sciences	100.0	85.0	14.2	28.8	35.7	6.3	14.7	3
Biological sciences	100.0	91.0	74.5	8.0	4.3	4.3	8.7	3
Agricultural sciences	100.0	68.5	27.4	15.4	16.6	9.0	31.0	5
Psychology	100.0	96.7	30.1	24.5	14.8	27.3	3.3	0
Social sciences	100.0	78.6	9.3	46.9	7.0	15.4	21.2	2
Non-S&E, total	100.0	90.5	4.9	53.7	6.2	25.6	9.4	1
Grand total, all fields	100.0	87.7	26.2	32.2	13.2	16.1	12.0	3
U S citizens								
Science and engineering, total	100.0	95.6	39.1	24.8	17.4	14.3	4.3	0.1
Engineering, total	100.0	97.1	19.1	18.4	43.6	15.9	2.9	0
Aeronautical/astronautical	100.0	98.7	18.2	10.4	35.1	35.1	1.3	0
Chemical	100.0	96.5	18.5	12.0	56.5	9.5	3.5	0
Civil	100.0	97.1	13.8	37.7	28.3	17.4	2.9	0
Electrical	100.0	97.4	15.0	16.9	51.9	13.6	2.6	0
Industrial	100.0	96.6	1.7	53.4	29.3	12.1	3.4	0
Materials/metallurgical	100.0	96.1	31.0	5.8	43.9	15.5	3.9	0
Mechanical	100.0	98.7	16.2	18.4	50.9	13.2	1.3	0
Other engineering	100.0	95.8	31.1	17.5	24.1	23.1	4.2	0
Sciences, total	100.0	95.3	42.6	25.9	12.8	14.0	4.6	1
Physical sciences, total	100.0	93.3	55.9	10.8	20.1	6.5	6.4	3
Astronomy	100.0	88.6	63.6	15.9	4.5	4.5	11.4	0
Chemistry	100.0	95.8	56.8	10.6	23.4	5.1	4.0	1
Physics	100.0	89.6	52.6	10.4	17.2	9.5	9.7	6
Other physical sciences	100.0	87.5	75.0	0	12.5	0	12.5	0
Earth, atmospheric, and ocean sciences	100.0	92.2	37.4	20.1	13.3	21.4	7.8	0
Mathematics	100.0	95.3	21.9	52.3	13.7	7.4	4.4	3
Computer sciences	100.0	94.5	11.3	40.5	33.1	9.6	5.1	3
Biological sciences	100.0	95.3	73.8	10.7	5.2	5.5	4.6	1
Agricultural sciences	100.0	94.3	26.3	25.7	27.0	15.3	5.7	0
Psychology	100.0	98.8	29.8	25.2	15.4	28.4	1.2	1
Social sciences	100.0	93.9	10.1	57.7	8.1	18.0	6.0	1
Non-S&E, total	100.0	97.6	4.6	57.1	6.6	29.3	2.4	1
Grand total, all fields	100.0	96.4	24.0	39.0	12.6	20.9	3.5	1

See explanatory information, if any, and SOURCE at end of table.

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**Table 8. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by citizenship status and major field: 1995**

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Field of study	Delinite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Non-U.S. citizens with permanent visas								
Science and engineering, total .....	100.0	92.3	51.8	10.8	24.6	5.2	6.8	0.9
Engineering, total .....	100.0	92.7	21.5	9.0	57.8	4.4	6.1	1.2
Aeronautical/astronautical .....	100.0	100.0	50.0	0	33.3	16.7	0	0
Chemical .....	100.0	95.2	31.0	2.4	57.1	4.8	4.8	0
Civil .....	100.0	91.4	20.0	14.3	45.7	11.4	5.7	2.9
Electrical .....	100.0	95.8	7.7	10.6	73.9	3.5	4.2	0
Industrial .....	100.0	71.4	4.8	23.8	42.9	0	23.8	4.8
Materials/metallurgical .....	100.0	91.3	50.0	4.3	34.8	2.2	6.5	2.2
Mechanical .....	100.0	90.8	21.5	6.2	60.0	3.1	6.2	3.1
Other engineering .....	100.0	94.3	30.2	9.4	49.1	5.7	5.7	0
Sciences, total .....	100.0	92.2	61.4	11.4	14.1	5.4	7.0	.8
Physical sciences, total .....	100.0	92.3	66.3	3.1	20.4	2.5	6.2	1.5
Astronomy .....	100.0	88.2	76.5	5.9	0	5.9	11.8	0
Chemistry .....	100.0	95.4	67.6	1.2	24.3	2.3	4.0	.6
Physics .....	100.0	88.7	63.2	5.3	15.0	2.3	8.3	3.0
Other physical sciences .....	0	0	0	0	0	0	0	0
Earth, atmospheric, and ocean sciences .....	100.0	91.8	57.1	8.2	16.3	10.2	8.2	0
Mathematics .....	100.0	95.1	22.2	37.0	34.6	1.2	4.9	0
Computer sciences .....	100.0	96.3	12.2	20.7	53.7	9.8	3.7	0
Biological sciences .....	100.0	96.1	89.7	2.3	2.3	1.8	2.9	1.0
Agricultural sciences .....	100.0	74.5	53.2	6.4	8.5	6.4	25.5	0
Psychology .....	100.0	93.9	40.8	22.4	8.2	22.4	6.1	0
Social sciences .....	100.0	80.1	13.2	39.7	10.6	16.6	19.9	0
Non-S&E, total .....	100.0	84.2	9.8	56.3	7.3	10.9	15.2	.5
Grand total, all fields .....	100.0	90.9	44.3	18.9	21.5	6.2	8.3	.8
Non-U.S. citizens with temporary visas								
Science and engineering, total .....	100.0	57.4	32.4	8.3	14.3	2.4	41.8	0.8
Engineering, total .....	100.0	60.3	23.6	4.1	30.5	2.0	38.5	1.2
Aeronautical/astronautical .....	100.0	50.0	22.9	4.2	22.9	0	47.9	2.1
Chemical .....	100.0	64.1	30.0	2.4	30.0	1.8	34.7	1.2
Civil .....	100.0	47.1	22.5	6.5	15.2	2.9	52.2	.7
Electrical .....	100.0	68.0	14.7	3.6	47.9	1.8	30.8	1.2
Industrial .....	100.0	42.4	6.8	10.2	25.4	0	55.9	1.7
Materials/metallurgical .....	100.0	70.8	41.5	2.8	25.5	.9	28.3	.9
Mechanical .....	100.0	60.1	29.2	3.6	26.8	6	38.1	1.8
Other engineering .....	100.0	53.7	25.7	4.4	17.6	5.9	45.6	.7
Sciences, total .....	100.0	56.0	36.4	10.2	6.9	2.6	43.4	.6
Physical sciences, total .....	100.0	69.0	57.2	3.3	8.2	.4	30.4	.6
Astronomy .....	100.0	58.8	47.1	11.8	0	0	41.2	0
Chemistry .....	100.0	78.7	65.0	2.4	10.5	7	20.6	.7
Physics .....	100.0	57.8	48.2	3.7	6.0	0	41.7	.5
Other physical sciences .....	100.0	0	0	0	0	0	100.0	0
Earth, atmospheric, and ocean sciences .....	100.0	44.3	35.1	3.1	5.2	1.0	55.7	0
Mathematics .....	100.0	55.8	23.1	28.4	4.3	0	42.8	1.4
Computer sciences .....	100.0	67.6	19.1	15.6	32.4	.4	32.0	.4
Biological sciences .....	100.0	69.1	64.2	1.7	2.2	1.0	30.6	.3
Agricultural sciences .....	100.0	33.5	23.5	3.9	4.8	1.3	65.2	1.3
Psychology .....	100.0	52.9	29.9	11.5	4.6	6.9	47.1	0
Social sciences .....	100.0	37.7	6.1	20.3	2.2	8.1	61.8	5
Non-S&E, total .....	100.0	36.9	5.8	26.1	3.3	1.7	62.5	6
Grand total, all fields .....	100.0	53.0	26.7	12.1	12.0	2.2	46.2	.7

SOURCE: National Science Foundation/SRS, Survey of Earned Doctorates

**Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1995**

[U.S. citizens and non-U.S. citizens with permanent visas]

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Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
All such recipients									
Science and engineering, total	18,961	11,841	11,261	4,850	2,695	2,180	1,536	554	26
Engineering, total	3,336	1,904	1,831	374	312	889	256	68	5
Aeronautical/astronautical	153	83	82	17	8	29	28	1	0
Chemical	381	242	233	50	25	137	21	9	0
Civil	309	173	166	26	57	55	28	6	1
Electrical	971	568	551	75	87	326	63	17	0
Industrial	149	79	71	2	36	26	7	7	1
Materials/metallurgical	351	201	191	71	11	84	25	9	1
Mechanical	558	293	284	51	46	155	32	7	2
Other engineering	464	265	253	82	42	77	52	12	0
Sciences, total	15,625	9,937	9,430	4,476	2,383	1,291	1,280	486	21
Physical sciences, total	2,840	1,767	1,645	1,021	166	356	102	113	9
Astronomy	141	105	93	69	15	4	5	12	0
Chemistry	1,623	1,038	994	608	94	244	48	42	2
Physics	1,059	616	551	338	57	107	49	58	7
Other physical sciences	17	8	7	6	0	1	0	1	0
Earth, atmospheric, and ocean sciences	593	343	316	138	63	47	68	27	0
Mathematics	771	446	425	98	221	78	28	20	1
Computer sciences	617	393	373	45	143	147	38	19	1
Biological sciences	4,321	3,023	2,884	2,313	280	143	148	131	8
Agricultural sciences	598	347	318	104	80	85	49	29	0
Psychology	3,169	1,932	1,906	582	485	294	545	25	1
Social sciences	2,716	1,686	1,563	175	945	141	302	122	1
Non-S&E, total	12,949	8,297	8,045	399	4,733	547	2,366	246	6
Grand total, all fields	31,910	20,138	19,306	5,249	7,428	2,727	3,902	800	32
Women									
Science and engineering, total	6,892	4,335	4,182	1,859	1,155	539	629	146	7
Engineering, total	518	296	287	64	75	111	37	8	1
Aeronautica/astronautical	12	5	5	1	0	0	4	0	0
Chemical	88	62	60	12	8	36	4	2	0
Civil	52	31	30	5	19	4	2	1	0
Electrical	120	65	63	8	17	31	7	2	0
Industrial	34	16	15	0	11	3	1	1	0
Materials/metallurgical	78	43	42	10	2	24	6	1	0
Mechanical	48	21	20	7	5	5	3	0	1
Other engineering	86	53	52	21	13	8	10	1	0
Sciences, total	6,374	4,039	3,895	1,795	1,080	428	592	138	6
Physical sciences, total	708	438	415	241	71	77	26	21	2
Astronomy	25	20	18	15	2	1	0	2	0
Chemistry	537	334	317	184	49	65	19	15	2
Physics	143	82	78	41	20	10	7	4	0
Other physical sciences	3	2	2	1	0	1	0	0	0
Earth, atmospheric, and ocean sciences	144	83	79	35	15	10	19	4	0
Mathematics	183	107	104	15	67	15	7	3	0
Computer sciences	143	96	91	11	48	22	10	5	0
Biological sciences	1,854	1,278	1,227	1,001	114	50	62	47	4
Agricultural sciences	135	68	65	24	19	9	13	3	0
Psychology	2,044	1,221	1,208	366	314	191	337	13	0
Social sciences	1,163	748	706	102	432	54	118	42	0
Non-S&E, total	7,203	4,602	4,503	212	2,711	261	1,319	96	3
Grand total, all fields	14,095	8,937	8,685	2,071	3,866	800	1,948	242	10

See explanatory information, if any, and SOURCE at end of table.

**Table 9. Postgraduation plans of science and engineering (S&E) doctorate recipients,  
by sex and major field: 1995**

[U.S. citizens and non-U.S. citizens with permanent visas]

Page 2 of 2

Field of study	Total	Definite plans							
		Total with definite plans	In the United States					Abroad	Location unknown
			Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
Men									
Science and engineering, total .....	12,069	7,506	7,079	2,991	1,540	1,641	907	408	19
Engineering, total .....	2,818	1,608	1,544	310	237	778	219	60	4
Aeronautical-astronautical .....	141	78	77	16	8	29	24	1	0
Chemical .....	293	180	173	38	17	101	17	7	0
Civil .....	257	142	136	21	38	51	26	5	1
Electrical .....	851	503	488	67	70	295	56	15	0
Industrial .....	115	63	56	2	25	23	6	6	1
Materials-metallurgical .....	273	158	149	51	9	60	19	8	1
Mechanical .....	510	272	264	44	41	150	29	7	1
Other engineering .....	378	212	201	61	29	69	42	11	0
Sciences, total .....	9,251	5,898	5,535	2,681	1,303	863	688	348	15
Physical sciences, total .....	2,132	1,329	1,230	780	95	279	76	92	7
Astronomy .....	116	85	75	54	13	3	5	10	0
Chemistry .....	1,086	704	677	424	45	179	29	27	0
Physics .....	916	534	473	297	37	97	42	54	7
Other physical sciences .....	14	6	5	5	0	0	0	1	0
Earth, atmospheric, and ocean sciences .....	449	260	237	103	48	37	49	23	0
Mathematics .....	588	339	321	83	154	63	21	17	1
Computer sciences .....	474	297	282	34	95	125	28	14	1
Biological sciences .....	2,467	1,745	1,657	1,312	166	93	86	84	4
Agricultural sciences .....	463	279	253	80	61	76	36	26	0
Psychology .....	1,125	711	698	216	171	103	208	12	1
Social sciences .....	1,553	938	857	73	513	87	184	80	1
Non-S&E, total .....	5,746	3,695	3,542	187	2,022	286	1,047	150	3
Grand total, all fields .....	17,815	11,201	10,621	3,178	3,562	1,927	1,954	558	22

SOURCE: National Science Foundation SRS, Survey of Earned Doctorates

**Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1995**

[U.S. citizens and non-U.S. citizens with permanent visas]

Page 1 of 2

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U.S.	Postdoc study	Academic employment	Industry employment	Other		
All such recipients								
Science and engineering total	100.0	95.1	41.0	22.8	18.4	13.0	4.7	0.2
Engineering total	100.0	96.2	19.6	16.4	46.7	13.4	3.6	3
Aeronautical/astronautical	100.0	98.8	20.5	9.6	34.9	33.7	1.2	0
Chemical	100.0	96.3	20.7	10.3	56.6	8.7	3.7	0
Civil	100.0	96.0	15.0	32.9	31.8	16.2	3.5	6
Electrical	100.0	97.0	13.2	15.3	57.4	11.1	3.0	0
Industrial	100.0	89.9	2.5	45.6	32.9	8.9	8.9	13
Materials/metallurgical	100.0	95.0	35.3	5.5	41.8	12.4	4.5	5
Mechanical	100.0	96.9	17.4	15.7	52.9	10.9	2.4	7
Other engineering	100.0	95.5	30.9	15.8	29.1	19.6	4.5	0
Sciences total	100.0	94.9	45.0	24.0	13.0	12.9	4.9	2
Physical sciences, total	100.0	93.1	57.8	9.4	20.1	5.8	6.4	5
Astronomy	100.0	88.6	65.7	14.3	3.8	4.8	11.4	0
Chemistry	100.0	95.8	58.6	9.1	23.5	4.6	4.0	2
Physics	100.0	89.4	54.9	9.3	17.4	8.0	9.4	11
Other physical sciences	100.0	87.5	75.0	0	12.5	0	12.5	0
Earth/atmospheric/ocean sciences	100.0	92.1	40.2	18.4	13.7	19.8	7.9	0
Mathematics	100.0	95.3	22.0	49.6	17.5	6.3	4.5	2
Computer sciences	100.0	94.9	11.5	36.4	37.4	9.7	4.8	3
Biological sciences	100.0	95.4	76.5	9.3	4.7	4.9	4.3	3
Agricultural sciences	100.0	91.6	30.0	23.1	24.5	14.1	8.4	0
Psychology	100.0	98.7	30.1	25.1	15.2	28.2	1.3	1
Social sciences	100.0	92.7	10.4	56.0	8.4	17.9	7.2	1
Non-S&E. total	100.0	97.0	4.8	57.0	6.6	28.5	3.0	1
Grand total, all fields	100.0	95.9	26.1	36.9	13.5	19.4	4.0	2
Women								
Science and engineering, total	100.0	96.5	42.9	26.6	12.4	14.5	3.4	0.2
Engineering, total	100.0	97.0	21.6	25.3	37.5	12.5	2.7	3
Aeronautical/astronautical	100.0	100.0	20.0	0	0	80.0	0	0
Chemical	100.0	96.8	19.4	12.9	58.1	6.5	3.2	0
Civil	100.0	96.8	16.1	61.3	12.9	6.5	3.2	0
Electrical	100.0	96.9	12.3	26.2	47.7	10.8	3.1	0
Industrial	100.0	93.8	0	68.8	18.8	6.3	6.3	0
Materials/metallurgical	100.0	97.7	23.3	4.7	55.8	14.0	2.3	0
Mechanical	100.0	95.2	33.3	23.8	23.8	14.3	0	4.8
Other engineering	100.0	98.1	39.6	24.5	15.1	18.9	1.9	0
Sciences, total	100.0	96.4	44.4	26.7	10.6	14.7	3.4	1
Physical sciences, total	100.0	94.7	55.0	16.2	17.6	5.9	4.8	5
Astronomy	100.0	90.0	75.0	10.0	5.0	0	10.0	0
Chemistry	100.0	94.9	55.1	14.7	19.5	5.7	4.5	6
Physics	100.0	95.1	50.0	24.4	12.2	8.5	4.9	0
Other physical sciences	100.0	100.0	50.0	0	50.0	0	0	0
Earth/atmospheric/ocean sciences	100.0	95.2	42.2	18.1	12.0	22.9	4.8	0
Mathematics	100.0	97.2	14.0	62.6	14.0	6.5	2.8	0
Computer sciences	100.0	94.8	11.5	50.0	22.9	10.4	5.2	0
Biological sciences	100.0	96.0	78.3	8.9	3.9	4.9	3.7	3
Agricultural sciences	100.0	95.6	35.3	27.9	13.2	19.1	4.4	0
Psychology	100.0	98.9	30.0	25.7	15.6	27.6	1.1	0
Social sciences	100.0	94.4	13.6	57.8	7.2	15.8	5.6	0
Non-S&E. total	100.0	97.8	4.6	58.9	5.7	28.7	2.1	1
Grand total, all fields	100.0	97.2	23.2	43.3	9.0	21.8	2.7	1

See explanatory information, if any, and SOURCE at end of table

**Table 10. Percentage distribution of definite postgraduation plans of science and engineering (S&E) doctorate recipients, by sex and major field: 1995**

[U.S. citizens and non-U.S. citizens with permanent visas]

Page 2 of 2

Field of study	Definite plans	In the United States					Abroad	Location unknown
		Total in U S	Postdoc study	Academic employment	Industry employment	Other		
Men								
Science and engineering, total	100.0	94.3	39.8	20.5	21.9	12.1	5.4	0.3
Engineering, total	100.0	96.0	19.3	14.7	48.4	13.6	3.7	2
Aeronautical-astronautical	100.0	98.7	20.5	10.3	37.2	30.8	1.3	0
Chemical	100.0	96.1	21.1	9.4	56.1	9.4	3.9	0
Civil	100.0	95.8	14.8	26.8	35.9	18.3	3.5	7
Electrical	100.0	97.0	13.3	13.9	58.6	11.1	3.0	0
Industrial	100.0	88.9	3.2	39.7	36.5	9.5	9.5	16
Materials-metallurgical	100.0	94.3	38.6	5.7	38.0	12.0	5.1	6
Mechanical	100.0	97.1	16.2	15.1	55.1	10.7	2.6	.4
Other engineering	100.0	94.8	28.8	13.7	32.5	19.8	5.2	0
Sciences, total	100.0	93.8	45.5	22.1	14.6	11.7	5.9	3
Physical sciences, total	100.0	92.6	58.7	7.1	21.0	5.7	6.9	5
Astronomy	100.0	88.2	63.5	15.3	3.5	5.9	11.8	0
Chemistry	100.0	96.2	60.2	6.4	25.4	4.1	3.8	0
Physics	100.0	88.6	55.6	6.9	18.2	7.9	10.1	1.3
Other physical sciences	100.0	83.3	83.3	0	0	0	16.7	0
Earth, atmospheric, and ocean sciences	100.0	91.2	39.6	18.5	14.2	18.8	8.8	0
Mathematics	100.0	94.7	24.5	45.4	18.6	6.2	5.0	.3
Computer sciences	100.0	94.9	11.4	32.0	42.1	9.4	4.7	.3
Biological sciences	100.0	95.0	75.2	9.5	5.3	4.9	4.8	.2
Agricultural sciences	100.0	90.7	28.7	21.9	27.2	12.9	9.3	0
Psychology	100.0	98.2	30.4	24.1	14.5	29.3	1.7	1
Social sciences	100.0	91.4	7.8	54.7	9.3	19.6	8.5	1
Non-S&E, total	100.0	95.9	5.1	54.7	7.7	28.3	4.1	1
Grand total, all fields	100.0	94.8	28.4	31.8	17.2	17.4	5.0	2

SOURCE: National Science Foundation-SRS, Survey of Earned Doctorates

**SURVEY OF EARNED DOCTORATES 1994-95**

Please return this form to the GRADUATE DEAN for forwarding to

The Office of Scientific and Engineering Personnel, National Research Council • 2101 Constitution Avenue, N.W., Washington, D.C. 20418

Please print or type.

1. Name in full: _____ Last Name _____	First Name _____	Middle Name _____
Cross Reference: Maiden name or former name legally changed _____		
2. Permanent address through which you could always be reached: (Care of, if applicable) _____		
Number _____	Street _____	City _____
State _____	Zip Code _____	Or Country if not U.S. _____
3. U.S. Social Security Number: _____		
4. Place of birth: _____ State _____ or Country if not U.S. _____	Date of birth: _____ Month _____	Day _____
5. Sex: 1 <input type="checkbox"/> Male 2 <input type="checkbox"/> Female	8. Are you a person with a disability? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, is it: 1 <input type="checkbox"/> Visual      2 <input type="checkbox"/> Orthopedic (mobility) 3 <input type="checkbox"/> Auditory (hearing)      4 <input type="checkbox"/> Vocal 5 <input type="checkbox"/> Other (specify) _____	
6. Marital status: 0 <input type="checkbox"/> Single, never married 1 <input type="checkbox"/> Married 2 <input type="checkbox"/> Separated, divorced, widowed	9. What is your racial background? 0 <input type="checkbox"/> American Indian or Alaskan Native (Check only one.) 1 <input type="checkbox"/> Asian or Pacific Islander 2 <input type="checkbox"/> Black 3 <input type="checkbox"/> White	
7. Citizenship: 0 <input type="checkbox"/> United States, native 1 <input type="checkbox"/> United States, naturalized  Non-United States: 2 <input type="checkbox"/> Permanent Resident of United States (Immigrant visa) _____ (Country of present citizenship)  3 <input type="checkbox"/> Temporary Resident of United States (Non-immigrant visa) _____ (Country of present citizenship)	10. Are you Hispanic? <input type="checkbox"/> No <input type="checkbox"/> Yes → 0 <input type="checkbox"/> Mexican American 1 <input type="checkbox"/> Puerto Rican 2 <input type="checkbox"/> Other Hispanic	
11. How many dependents do you have? _____ Do not include yourself. (Dependent = someone receiving at least one half of his or her support from you.)		

**EDUCATION**

12. Location of high school/secondary school last attended: _____ State _____ or Country if not U.S. _____	Date of graduation from high school: _____ Month/Year _____							
13. List below, chronologically, all colleges (including 2-year) and graduate institutions you have attended and each degree earned (if any). Be sure to give the years attended for ALL institutions attended. Include your doctoral institution(s) (and degree) at the end.								
Institution/Branch	State/Country	Years Attended		Field of Study		Degree (if any)		
		Use Specialties List				Title	Granted	
		From	To	Name	Number		Mo	Yr
EXAMPLE Genesee Community College SUNY/Buffalo	NY NY	79 81	81 83	Math Computer Science	498 400	B.S.	6 83	

If a baccalaureate degree (or equivalent) was never received, please check box.

14. How many years were you a full-time student between receiving your first baccalaureate degree (or equivalent) and receiving your doctorate (include the period spent on your thesis and/or dissertation). _____ (whole numbers)	
15. Identify the field of your dissertation research and enter below the title of your dissertation. If a project report or a musical or literary composition is a degree requirement in lieu of a dissertation, please check box <input type="checkbox"/> Name of field _____ Number of field _____ (Use Specialties List) Title _____	
16. Name the department (or interdisciplinary committee, center, institute, etc.) and school or college of the university which supervised your doctoral program.	
Department/Institute/Committee/Program _____	School _____

17. Indicate your primary and secondary sources of support during graduate school by entering "1" or "2" in the appropriate box. Check (✓) all other sources from which support was received, if any. (Enter only one source as "1" and one source as "2.")

Own/Family Resources	Federal Research Assistant	Other Federal Support (continued)	Student Loans
01 <input type="checkbox"/> Own Earnings	22 <input type="checkbox"/> NIH	49 <input type="checkbox"/> Other Dept. Education	80 <input type="checkbox"/> Guaranteed Student Loan (Stafford Loan)
02 <input type="checkbox"/> Spouse's Earnings	32 <input type="checkbox"/> NSF	60 <input type="checkbox"/> Veterans Administration	81 <input type="checkbox"/> Perkins Loan — formerly National Direct Student Loan
03 <input type="checkbox"/> Family Contributions	52 <input type="checkbox"/> USDA	53 <input type="checkbox"/> USDA Fellowship	89 <input type="checkbox"/> Other Loan
University-Related	62 <input type="checkbox"/> Other Federal	69 <input type="checkbox"/> Other Federal	
10 <input type="checkbox"/> Teaching Assistant	Specify	Specify	Specify
11 <input type="checkbox"/> Research Assistant	Other Federal Support	U.S. Nationally Competitive	Other Sources
12 <input type="checkbox"/> University Fellow	21 <input type="checkbox"/> NIH Traineeship/Fellowship	Fellowships (Non-Federal)	90 <input type="checkbox"/> Business/Employer
14 <input type="checkbox"/> College Work-Study	29 <input type="checkbox"/> Other HHS	70 <input type="checkbox"/> Ford Foundation	91 <input type="checkbox"/> Foreign (Non-U.S.) Government
19 <input type="checkbox"/> Other	33 <input type="checkbox"/> NSF Fellowship	71 <input type="checkbox"/> Rockefeller Foundation	92 <input type="checkbox"/> State Government
	40 <input type="checkbox"/> Patricia Roberts-Harris	73 <input type="checkbox"/> Mellon Foundation	99 <input type="checkbox"/> Other
	Fellowship — formerly G*POP (Department of Education)	78 <input type="checkbox"/> Other Fellowship	
	44 <input type="checkbox"/> Title VI Foreign Language	Specify	Specify

18. When you receive your doctorate degree, how much money will you owe that is directly related to your undergraduate and/or graduate education (tuition and fees, living expenses and supplies, transportation to and from school)?

- 0  None      4  \$15,001-\$20,000  
 1  \$5,000 or less      5  \$20,001-\$25,000  
 2  \$5,001-\$10,000      6  \$25,001-\$30,000  
 3  \$10,001-\$15,000      7  \$30,001 or more

19A. Please check the category that most fully describes your status for employment or study during the year immediately preceding the award of the doctorate.

- 0  Full-time employed →  
 1  Held fellowship  
 2  Held assistantship  
 3  Part-time employed  
 4  Not employed  
 5  Other (specify) \_\_\_\_\_

Go to item 19B →

B. If full-time employed, what type of position did you hold?

- 6  College or university, faculty  
 7  College or university, non-faculty  
 8  Elementary or secondary school, teaching  
 9  Elementary or secondary school, non-teaching  
 (11)  Industry or business  
 (12)  Other (specify) \_\_\_\_\_

## POSTGRADUATION PLANS

20. How definite are your immediate postgraduate plans?

- 0  Am returning to, or continuing in, predoctoral employment  
 1  Have signed contract or made definite commitment  
 2  Am negotiating with one or more specific organizations  
 3  Am seeking position but have no specific prospects  
 4  Other (specify) \_\_\_\_\_

21. What best describes your immediate postgraduate plans?

### Study

- 0  Postdoctoral fellowship  
 1  Postdoctoral research associateship  
 2  Traineeship  
 3  Other study (specify) \_\_\_\_\_  
 4  Employment (other than 0, 1, 2, 3)  
 5  Military service  
 6  Other (specify) \_\_\_\_\_

For study  
plans go to  
Item 22

For employ-  
ment plans  
go to Item 23

22. If you plan to have a postdoctoral fellowship, associateship, traineeship, or otherwise undertake further study.

A. What will be the field of your postdoctoral study? Please enter number from Specialties List.

B. What will be the main source of financial support for your study/research?  
 0  U.S. Government  
 1  College or university  
 2  Private foundation  
 3  Nonprofit, other than private foundation  
 4  Other (specify) \_\_\_\_\_  
 6  Unknown

Go to Item 24

23. If you plan to be employed, enter military service or other:

A. For what type of employer will you be working?

- Education  
 a  U.S. 4-yr college or university other than medical school  
 b  U.S. medical school  
 c  U.S. jr. or community college  
 d  Elementary or secondary school  
 e  Foreign institution  
 Government  
 f  Foreign government  
 g  U.S. federal government  
 h  U.S. state government  
 i  U.S. local government  
 Private Sector  
 j  Nonprofit organization  
 k  Industry or business  
 l  Self-employed  
 Other  
 m  Other (specify) \_\_\_\_\_

B. Indicate what your primary and secondary work activities will be by entering "1" or "2" in the appropriate box.

- 0  Research and development  
 1  Teaching  
 2  Administration  
 3  Professional services to individuals  
 5  Other (specify) \_\_\_\_\_

C. In what field will you be working? Please enter number from Specialties List. Go to Item 24

24. Where do you intend to live/work/study after graduation? 0  in U.S. \_\_\_\_\_

State

1  not in U.S. \_\_\_\_\_

Country

Name of Organization, if known

City of Organization, if known

25. What is the highest educational attainment of your mother and father? Please circle.

Father	Less than high school	High school graduate	Some college	Bachelors	Masters	Professional	Doctorate
Mother	Less than high school	High school graduate	Some college	Bachelors	Masters	Professional	Doctorate
Codes for office use	1	2	3	4	5	6	7

Signature \_\_\_\_\_

Date \_\_\_\_\_

If you would like a summary of the results of this survey, please check box.  (Available as funding permits.)

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